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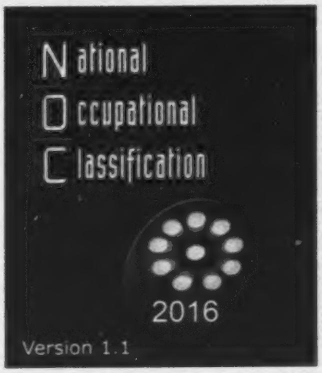
# National Occupational Classification (NOC) 2016 Version 1.1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2016
Version 1.1

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*Cette publication est aussi disponible en français.*

## Preface

The purposes for the 2016 Version 1.1 of the National Occupational Classification (NOC) are: to update the classification to incorporate emerging occupations and new job titles while maintaining historical comparability; to remove redundant or obsolete job titles to optimize readability and navigation of the NOC.

The structure of NOC 2016 Version 1.1 remains unchanged from that of NOC 2016 Version 1.0. No major groups, minor groups or unit groups have been added, deleted or combined, though some groups have updated content. Many new job titles have been added to NOC 2016 Version 1.1, which arise as the division of labour in Canadian society evolves, creating new jobs and new specializations, and as technological change brings with it new terminology.

## Acknowledgements

The National Occupational Classification (NOC) 2016 Version 1.1 is published by Employment and Social Development Canada (ESDC) and Statistics Canada. The realization of NOC 2016 Version 1.1 was dependent on the involvement of a team of occupational research analysts and assistants from both ESDC and Statistics Canada.

Both ESDC and Statistics Canada wish to acknowledge the valuable input of many individuals and groups. Research consultants, academics, professional associations, sector organizations, educators as well as employers and workers throughout the Canadian labour market provided occupational information and advice that informed this revision process. The many stakeholders who responded to the public online consultation for the revision of the NOC, hosted by Statistics Canada, provided valuable input which is also appreciated.

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# Introduction

## Background

The National Occupational Classification (NOC) 2016 Version 1.1 updates the National Occupational Classification 2016 Version 1.0. It is the nationally accepted taxonomy and organizational framework of occupations in the Canadian labour market. The NOC has been developed and maintained as part of a collaborative partnership between Employment and Social Development Canada and Statistics Canada. This update of the classification reflects ongoing occupational research and consultation to incorporate information on new occupations. Each ten years, structural changes that affect the classification framework, such as the addition of new classes, are considered. The NOC 2016 Version 1.1 represents an update, and uses the NOC 2016 Version 1.0 classification structure.

The NOC is designed to classify occupational information from statistical surveys. It is also used in a range of contexts to compile, analyze and communicate information about occupations. Occupational information is of critical importance for the provision of labour market and career intelligence, skills development, occupational forecasting, labour supply and demand analysis, employment equity and numerous other programs and services. It provides a standardized framework for organizing the world of work in a manageable, understandable and coherent system.

The basic principle of classification of the NOC is the kind of work performed. Occupations are identified and grouped primarily in terms of the work usually performed, this being determined by the tasks, duties, and responsibilities of the occupation. Factors such as the materials processed or used, the industrial processes and the equipment used, the degree of responsibility and complexity of work, as well as the products made and services provided, have been taken as indicators of the work performed when combining jobs into occupations and occupations into groups.

An occupation is defined as a collection of jobs, sufficiently similar in work performed to be grouped under a common label for classification purposes. A job, in turn, encompasses all the tasks carried out by a particular worker to complete their duties.

The NOC provides a systematic classification structure that categorizes the entire range of occupational activity in Canada. Its detailed occupations are identified and grouped primarily according to the work performed, as determined by the tasks, duties and responsibilities of the occupation. The NOC 2016 Version 1.1 update incorporates emerging and new job titles and clarifies the content of unit groups. Updates to the descriptions and job titles of some unit groups reflect added information, changes in terminology to correspond with current usage and the evolution of some occupations.

NOC 2016 Version 1.1 maintains the structure of the NOC 2016 Version 1.0 and provides historic comparability. No major groups, minor groups or unit groups have been added, deleted or combined, though some groups have updated content. Like NOC 2016 Version 1.0, its organization is based on the dual criteria of Skill Type and Skill Level, to support relevant labour market analysis.

## Structure and format of NOC 2016 Version 1.1

The structure and format of the National Occupational Classification 2016 Version 1.1 are based on the four-tiered hierarchical arrangement of occupational groups with successive levels of disaggregation. It contains broad occupational categories, major, minor and unit groups.

### 10 broad occupational categories

- Each broad occupational category has a unique one-digit code number and is composed of one or more major groups.

**40 major groups**

- Each major group has a unique two-digit[1] code number and is composed of one or more minor groups. The first digit of this code indicates the broad occupational category to which the major group belongs.

**140 minor groups**

- Each minor group has a unique three-digit code number and is composed of one or more unit groups. The first two digits of this code indicate the major group to which the minor group belongs.

**500 Unit Groups**

- Each unit group has a unique four-digit code. The first three digits of this code indicate the major and minor groups to which the unit group belongs.

**For example:**

**0 - Management occupations**

00 - Senior management occupations

001 - Legislators and senior management

0011 - Legislators

0012 - Senior government managers and officials

0013 - Senior managers - financial, communications and other business services

0014 - Senior managers - health, education, social and community services and membership organizations

0015 - Senior managers - trade, broadcasting and other services, n.e.c.

0016 - Senior managers - construction, transportation, production and utilities

The broad occupational category code, designated by a single digit, is repeated at all levels. Major group codes are created by adding a second digit. This digit appears in the second position at all lower levels in the structure. Minor group codes add a third digit. Finally, the 4-digit unit group codes contain the digit identifying the broad occupational group, followed by the digit identifying the major group and the digit identifying the minor group and a last digit identifying the unit group.

There are approximately 35,000 titles classified in the 500 unit groups of the NOC 2016. Some titles are clearly occupations, such as librarian and chef, while others reflect specializations within an occupational area, such as music librarian and pastry chef. Still others represent a range of jobs, such as furniture assembler and sawmill machine operator.

These titles are used to describe the work performed by many individuals holding similar jobs within an occupational area. The list of titles in the NOC is not meant to be exhaustive, but attempts to cover the most commonly used and universally understood labels that identify work in the labour market.

## Abbreviations

Few abbreviations are used in this classification. Particular attention should be given to the abbreviation n.e.c. (not elsewhere classified). As an occupational qualifier it is occasionally used in the labels of major, minor and unit groups to refer to occupations not elsewhere classified ( e.g., 065 Managers in customer and personal services, n.e.c.).

## Language

The NOC is available separately in both official languages. It is important to note that the French version includes only titles commonly used in French and proper to the milieu and, therefore, these are not normally translations of the English titles. The classification structure is the same in both languages.

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1. Except for major groups 01-05 and 07-09.

Unit group labels are presented in gender-neutral format in French identifying the masculine and feminine titles separated by a slash. Where relevant, this structure is used in English as well. The illustrative example titles and inclusions are also presented in gender-neutral format. The NOC descriptions are written using the masculine form as they refer to all workers within the included occupations. This has been done in order to lighten the text and to reduce reading burden.

### Modifying terms

Modifying terms have been added to several job titles, as extensions, to designate the industrial sector or the domain of expertise. If applicable, this information is preceded by a dash at the end of the title (cashier supervisor – retail trade) to distinguish between similar titles. These modifying terms may also specify where the titles appear in the classification structure (painter – visual arts; painter – manufacture of motor vehicles). This information should be considered when coding job titles.

### Format of unit group descriptions

Each NOC unit group description consists of several standardized sections which define and describe its content.

#### Class definitions[2] / Lead statement[3]

This section provides a general description of the content and boundaries of the unit group and indicates the main activities of occupations within the unit group. It also indicates the kinds of industries or establishments in which the occupations are found. The list of places of employment is not always exhaustive, but can assist in clarifying the occupations described and in differentiating them from occupations found in other groups.

#### Illustrative examples[2] / Example titles[3]

This section is a list of titles commonly used in the labour market. The titles are intended to illustrate the contents and range of the occupational group. This is not an exhaustive list of job titles.

#### Inclusions

This section provides a list of borderline job titles belonging to a particular NOC unit group. Inclusions are examples in classes where it might not be clear from reading both the class text and title that the example belongs in the class.

#### Exclusions[2] / Classified elsewhere[3]

This section clarifies the boundaries of the unit group by identifying related unit groups and similar occupations that are classified elsewhere. Unit groups or individual occupations are cited in this section when they bear a functional similarity to the unit group or when similar titles occur.

#### Main duties

This section lists some of the tasks or duties performed in the occupations in the unit group. Depending on the contents of the unit group, one of three formats is used.

- A series of statements that can be applied to all occupations in the unit group. This format was selected for unit groups that contain a single core occupation, such as 1242 Legal administrative assistants and 2146 Aerospace engineers. This format was also selected for unit groups that contain a range of related titles that nevertheless share a set of common duties, such as 1411 General office support workers and 9417 Machining tool operators.
- Two or more sub-sets of occupations with a series of statements that apply to each component. This format was selected for unit groups that consist of two or more sub-components which, while similar enough to be in the same unit group, can be described separately. Examples of unit groups with this format are 3141 Audiologists and speech-language pathologists and 5125 Translators, terminologists and interpreters.

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[2] This heading is used by Statistics Canada.

[3] This heading is used by Employment and Social Development Canada.

- A series of brief descriptive statements that are linked to specific occupations within a group. This format was selected for unit groups that contain a series of occupations which, while similar enough to be in the same unit group, can be described separately. Examples of unit groups with this format include 4423 By-law enforcement and other regulatory officers, n.e.c. and 5226 Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts.

For some unit groups, a statement appears at the end of the tasks performed or main duties section, identifying specializations that exist within the occupational area encompassed by the unit group.

### Employment requirements

This section describes the employment requirements for the unit group. Several types of requirements are identified in this section and are listed in the following order.

- Type and level of formal education: for example, secondary school, college diploma, university degree. Efforts were made to be as specific as possible, though many unit groups have a range of acceptable educational requirements.
- Specific training: for example, apprenticeship training, on-the-job training, training courses specific to an occupation.
- Experience in another occupation: for example, supervisors usually require several years of experience in the occupation that they supervise.
- Licences, certificates or registration: for example, regulatory requirements to practice in a regulated profession, special licenses to operate certain kinds of vehicles.
- Other requirements: for example, athletic ability or artistic talent.

Note: Some occupations are designated as regulated professions and trades. Regulations are subject to change and may vary across jurisdictions. The most reliable information on regulatory requirements for occupations is found on the Web sites of provincial regulatory organizations and licensing authorities.

The Employment requirements section does not attempt to describe personal suitability requirements that are assessed by employers as part of the hiring process.

Some occupations have very definite employment requirements while for others, there is no consensus or a range of acceptable requirements exist. To reflect this variation in the labour market, this section describes employment requirements using the following terminology:

- "... is required" - to indicate a definite requirement;
- "... is usually required" - to indicate something that is usually required by the majority of employers, but not always required by all employers; and
- "... may be required" - to indicate something that may be required by some employers, but on a less frequent basis.

Note: For reasons of brevity, in this section the term college includes the following types of post-secondary institutions: community colleges, CÉGEPS, technical institutes, trade schools and agricultural colleges. Where relevant, in some provinces, it may also include private training organizations, music conservatories and other non-degree granting institutions.

### Additional information

This section appears in some unit group descriptions. It provides information on the following:

- progression to other occupations (such as supervisory or management positions) based on transferability of skills from acquired occupational experience;
- mobility patterns, such as inter- and intra-occupational transferability of skills (for example, identifying occupations that are part of internal lines of progression or specializations within a subject matter area);
- trends and forthcoming changes in the unit group's employment requirements; and
- other information to clarify and define the unit group.

## Related classifications

The classification of occupations does not stand alone but must be understood as being related to other classifications, such as the North American Industry Classification System (NAICS) and that of Class of Worker. Each of these classifications supplements the NOC 2016 Version 1.1 in presenting a rounded picture of the nature of a person's job.

### North American Industry Classification System (NAICS)

The industrial qualifier which may accompany the job title:

a. Indicates the type of economic activity with which the job is usually associated. (It is important to note that the assignment of an industrial qualifier does not necessarily limit a job to that industry. These qualifiers are merely indicative of the possible areas of activity in which the job may be found.)

b. Permits the assignment of similar titles to different occupation groups where the duties vary between industries.

c. Aids in defining the specific occupations and helps the coder grasp the underlying principles of this classification.

The industry in which the individual is employed is determined by the kind of economic activity of the establishment. The establishment is usually a factory, mine, farm, store, other place of business or an institution for which a number of basic production variables can be compiled.

It is important to note the conceptual differences between an industry classification and an occupation classification. An establishment can employ individuals performing completely different occupations, and these are classified to appropriate occupational groups, but the industrial classification of each individual employed in the establishment should be the same and is determined by the nature of the product made or service rendered. In other words, the nature of the factory, business or service in which the person is employed does not determine the classification of the occupation, except to the extent that it enables the nature of the duties to be more clearly defined.

### Class of Worker

Class of worker refers to an individual's employment relationship to the business in which he or she works, as employee or self-employed, including unpaid family worker, and thus provides another means of describing the work. The NOC 2016 Version 1.1 does not indicate the class of worker classification for each occupation since many occupations contain both jobs held by employees and jobs of self-employed individuals. However, a general rule has been established for coding purposes and is discussed in full under the section on Coding.

## Relationship between NOC and ISCO-08

The NOC is comparable to the International Standard Classification of Occupations (ISCO) published by the International Labour Organization (ILO). While the NOC was originally developed in Canada in the 1980s, ISCO was also being reviewed and updated to produce ISCO-88. Communication between the NOC and ISCO research teams led to similarities, such as a similar conceptual framework that includes the Skill Type and Skill Level dimensions. The similarities between the NOC and ISCO increased in latest structural revisions (ISCO-08 and

NOC 2011) cycle. However, certain conceptual differences between the NOC 2016 Versions 1.0 and 1.1 and ISCO-08 limit comparability. For instance, differences in skill level definitions and classification structure exist between NOC 2016 Version 1.0 and 1.1 and ISCO-08, especially in the trades occupations. Subsistence occupations included in ISCO are not part of the NOC. For countries and regions in which subsistence activities are virtually non-existent, the ILO affirms that such activities may be excluded without loss of international comparability.

The concordance between NOC 2011 and ISCO 2008 can be used for purposes of showing the relationship between NOC 2016 Versions 1.0 and 1.1 and ISCO 2008 since the structure is the same in both NOC 2011 and NOC 2016.

## Overview of the NOC 2016 Version 1.0 update

The purposes for the 2016 revision of the National Occupational Classification (NOC) are: to update the classification to incorporate emerging occupations and new job titles while maintaining historical comparability; to remove redundant or obsolete job titles to optimize readability and navigation of the NOC; to incorporate editorial changes; to integrate the concept of Inclusions at the unit group level; and to add NOC major and minor groups definitions.

The structure of NOC 2016 Version 1.0 remains unchanged from that of NOC 2011. No major groups, minor groups or unit groups have been added, deleted or combined, though some groups have new names or updated content.

Job titles changes at the unit group and minor group levels and updates to the definitions of some unit groups reflect added information, correction of terminology to correspond with current usage and the evolution of some occupations and where they are classified.

Many new job titles have been added to NOC 2016 version 1.0, which arise as the division of labour in Canadian society evolves, creating new jobs and new specializations, and as technological change brings with it new terminology. Some of the titles added to reflect such changes are: geodesist, medical archivist, crime scene examiner, corrosion technologist, video game tester and biomass plant technicians. Other added titles are modified versions, or alternatives, that appeared in previous versions of the NOC and have been added to help users find particular occupations. For example, power plant stationary engineer appeared in earlier versions of the NOC; operating engineer - power plant has been added.

To clarify the boundaries between occupations, a few titles have been re-assigned to a different unit group in NOC 2016. The impact of this on the comparability of data between 2011 and 2016 is negligible. For example, Admission director – health care has been moved from Managers in health care (0311) to Other administrative services managers (0114). This change will have a minimal impact on the unit groups affected, and provides a more appropriate placement. In all other cases where titles have been moved, this was done to clarify the boundaries and improve content description of these unit groups. For example, the titles 'tax collector' and 'collector of taxes' were being coded in Employment insurance, immigration, border services and revenue officers (1228) rather than in Collectors (1435).

With the transition to a paperless environment and content digitalization, significant format changes were made to the list of job titles contained in the NOC. To optimize the use of the NOC, redundant or obsolete job titles were removed. In the past, titles appeared in both in natural order (e.g., travel agent) and in inverted order (e.g., agent, travel). Inverted titles used a comma as a separator in the title string making it easier to find titles in a paper publication. As this concept became outdated and redundant in web publications and data files, more than 4000 quasi-duplicates entries were removed for the NOC 2016.

The NOC is structured in accordance with the Generic Statistical Information Model (GSIM): Statistical Classifications Model. In order to comply with the demands of GSIM, the NOC was revised with the addition of Inclusions, to supplement the existing Illustrative examples and Exclusions. Inclusions are borderline cases for the unit group. They are presented separately in order to clarify the contents of the class. Note that creation of Inclusions do not change the boundaries of any NOC unit group. Moreover, definitions were developed for the NOC major and minor groups. They facilitate the use of the major and minor groups within the matrix of the classification criteria: skill level and skill type. Minor group definitions are significantly more detailed than the Major group definitions.

More information on these changes is available in the following tables which summarize the changes of note between NOC 2011 and NOC 2016.

**Table 1**
**Modified unit group titles**

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 0433 | Commissioned officers of the Canadian Forces | Commissioned officers of the Canadian Armed Forces |
| 1432 | Payroll clerks | Payroll administrators |
| 4313 | Non-commissioned ranks of the Canadian Forces | Non-commissioned ranks of the Canadian Armed Forces |
| 7313 | Refrigeration and air conditioning mechanics | Heating, refrigeration and air conditioning mechanics |
| 9213 | Supervisors, food, beverage and associated products processing | Supervisors, food and beverage processing |
| 9232 | Petroleum, gas and chemical process operators | Central control and process operators, petroleum, gas and chemical processing |
| 9461 | Process control and machine operators, food, beverage and associated products processing | Process control and machine operators, food and beverage processing |
| 9465 | Testers and graders, food, beverage and associated products processing | Testers and graders, food and beverage processing |
| 9617 | Labourers in food, beverage and associated products processing | Labourers in food and beverage processing |

**Table 2**
**Modified unit group definitions**

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 0013 | Senior managers in this unit group are usually appointed by a board of directors, to which they report. They work either alone or in conjunction with the board of directors to develop and establish objectives for the company, and to develop or approve policies and programs. They plan, organize, direct, control and evaluate, through middle managers, the operations of their organization in relation to established objectives. They work in establishments throughout the telecommunications, finance, insurance, real estate, and data processing, hosting and related services industries as well as other business service industries. | Senior managers in this unit group are usually appointed by a board of directors, to which they report. They work either alone or in conjunction with the board of directors to develop and establish objectives for the company, and to develop or approve policies and programs. They plan, organize, direct, control and evaluate, through middle managers, the operations of their organization in relation to established objectives. They work in establishments throughout the telecommunications, finance, insurance, real estate, and data processing, hosting and related services industries as well as other business service industries or they may own and operate their own business. |
| 0014 | Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, membership and other organizations or institutions that deliver health, education, social or community services. They formulate policies which establish the direction to be taken by these organizations, either alone or in conjunction with a board of directors. They are employed in health care organizations, educational services, social and community services and membership organizations. | Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, membership and other organizations or institutions that deliver health, education, social or community services. They formulate policies which establish the direction to be taken by these organizations, either alone or in conjunction with a board of directors. They are employed in health care organizations, educational services, social and community services and membership organizations or they may own and operate their own business. |
| 0015 | Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, trade, broadcasting and other service companies not elsewhere classified. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with a board of directors. They work in establishments in broadcasting and related media services, wholesale trade, retail trade, accommodation and food service, and other services not elsewhere classified. | Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, trade, broadcasting and other service companies not elsewhere classified. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with a board of directors. They work in establishments in broadcasting and related media services, wholesale trade, retail trade, accommodation and food service, and other services not elsewhere classified or they may own and operate their own business. |
| 0016 | Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, the overall operations of goods production, utility, transportation and construction companies. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with other members of a board of directors. They work in establishments throughout the following industries: fishing, forestry, logging and agriculture; mining, oil and gas extraction; construction; transportation and warehousing; printing; manufacturing; and utilities. | Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, the overall operations of goods production, utility, transportation and construction companies. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with other members of a board of directors. They work in establishments throughout the following industries: fishing, forestry, logging and agriculture; mining, oil and gas extraction; construction; transportation and warehousing; printing; manufacturing; and utilities or they may own and operate their own business. |

## Table 2
## Modified unit group definitions

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 0114 | This unit group includes managers who plan, organize, direct, control and evaluate departments responsible for corporate governance and regulatory compliance, records management, security services, admissions and other administrative services not elsewhere classified. Also included in this unit group are managers responsible for departments involved in two or more of the following activities: finance, human resources, purchasing, computer systems or administrative services. Managers in this unit group are employed throughout the public and private sector. | This unit group includes managers who plan, organize, direct, control and evaluate departments responsible for corporate governance and regulatory compliance, records management, security services, admissions and other administrative services not elsewhere classified. Also included in this unit group are managers responsible for departments involved in two or more of the following activities: finance, human resources, purchasing or administrative services. Managers in this unit group are employed throughout the public and private sector. |
| 0124 | Advertising, marketing and public relations managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial and e-business advertising, marketing and public relations. They are employed by commercial and industrial establishments, government departments, and advertising, marketing and public relations firms or consulting businesses. | Advertising, marketing, public relations and e-business managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial and e-business advertising, marketing and public relations. They are employed by commercial and industrial establishments, government departments, and advertising, marketing and public relations firms or consulting businesses. |
| 0411 | Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of health care policies, social policies and related programs designed to protect and promote the health and social welfare of individuals and communities. These managers are employed by government departments and agencies. | Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of health care policies, social policies and related programs designed to protect and promote the health and social welfare of individuals and communities. They are employed by all levels of government. |
| 0412 | Government managers in this unit group plan, organize, direct, control and evaluate economic policy, research and programs in areas of government activity such as taxation, international trade, labour markets, transportation or agriculture. They also plan and direct policies and programs to promote industrial and commercial business development in urban and rural areas. They are employed in government departments and agencies. | Government managers in this unit group plan, organize, direct, control and evaluate economic policy, research and programs in areas of government activity such as taxation, international trade, labour markets, transportation or agriculture. They also plan and direct policies and programs to promote industrial and commercial business development in urban and rural areas. They are employed by all levels of government. |
| 0413 | Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of elementary, secondary and post-secondary education policies and programs. They are employed by government departments and agencies. | Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of elementary, secondary and post-secondary education policies and programs. They are employed by all levels of government. |
| 0414 | Managers in this unit group plan, organize, direct, control and evaluate the development of policies and programs which govern the daily operations of legislatures and other activities unique to government such as intergovernmental affairs and elections. They are employed by government departments, agencies and legislative bodies. | Managers in this unit group plan, organize, direct, control and evaluate the development of policies and programs which govern the daily operations of legislatures and other activities unique to government such as intergovernmental affairs and elections. They are employed by all levels of government. |
| 0433 | This unit group consists of commissioned officers of the Canadian Forces who plan, organize, command and evaluate the activities of personnel in the Canadian Forces. All ranks of commissioned officers in the Air Force, Army, and Navy are included in this unit group. | This unit group consists of commissioned officers of the Canadian Armed Forces who plan, organize, command and evaluate the activities of personnel in the Canadian Armed Forces. All ranks of commissioned officers in the Royal Canadian Air Force, Canadian Army, and Royal Canadian Navy are included in this unit group. |
| 0511 | This unit group includes managers who plan, organize, direct, control and evaluate the activities of libraries, archives, museums, art galleries or departments within such institutions. They are employed in libraries, archives, museums and non-retail art galleries. | Library, archive, museum and art gallery managers plan, organize, direct, control and evaluate the activities of libraries, archives, museums, art galleries or departments within such institutions. They are employed in libraries, archives, museums and non-retail art galleries. |
| 1121 | Human resources professionals develop, implement and evaluate human resources and labour relations policies, programs and procedures and advise managers and employers on human resources matters. Human resources professionals are employed throughout the private and public sectors, or they may be self-employed. | Human resources professionals develop, implement and evaluate human resources and labour relations policies, programs and procedures and advise employers and employees on human resources matters. Human resources professionals are employed throughout the private and public sectors, or they may be self-employed. |
| 1228 | This unit group includes government officers who administer and enforce laws and regulations related to immigration, employment insurance, customs and tax revenue. They are employed by government agencies. | This unit group includes government officers who administer and enforce laws and regulations related to immigration, customs, border crossing, tax revenue, employment insurance and other government benefit services. They are employed by government agencies. |

**Table 2**
**Modified unit group definitions**

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 1414 | Receptionists greet people arriving at offices, hospitals and other establishments, direct visitors to appropriate person or service, answer and forward telephone calls, take messages, schedule appointments and perform other clerical duties. They are employed by hospitals, medical and dental offices and in other offices throughout the public and private sectors. Telephone operators are included in this group. | Receptionists greet people arriving at offices, hospitals and other establishments, direct visitors to appropriate person or service, answer and forward telephone calls, take messages, schedule appointments and perform other clerical duties. They are employed by hospitals, medical and dental offices and throughout the public and private sectors. Telephone operators are included in this group. |
| 1432 | Payroll clerks collect, verify and process payroll information and determine pay and benefit entitlements for employees within a department, company or other establishment. They are employed by payroll administration companies and by establishments throughout the private and public sectors. | Payroll administrators collect, verify and process payroll information and determine pay and benefit entitlements for employees within a department, company or other establishment. They are employed by payroll administration companies and by establishments throughout the private and public sectors. |
| 1523 | Production logistics co-ordinators co-ordinate and expedite the flow of work and materials within an establishment, prepare work and production schedules and monitor the progress of production and construction projects. Production clerks are employed by manufacturing and construction companies, printing and publishing companies and other industrial establishments. | Production logistics co-ordinators co-ordinate and expedite the flow of work and materials within an establishment, prepare work and production schedules and monitor the progress of production and construction projects. They are employed by manufacturing and construction companies, printing and publishing companies and other industrial establishments. |
| 2174 | Computer programmers write, modify, integrate and test computer code for microcomputer and mainframe software applications, data processing applications, operating systems-level software and communications software. Interactive media developers write, modify, integrate and test computer code for Internet applications, computer-based training software, computer games, film, video and other interactive media. They are employed in computer software development firms, information technology consulting firms, and in information technology units throughout the private and public sectors. | Computer programmers write, modify, integrate and test computer code for software applications, data processing applications, operating systems-level software and communications software. Interactive media developers write, modify, integrate and test computer code for Internet and mobile applications, computer-based training software, computer games, film, video and other interactive media. They are employed in computer software development firms, information technology consulting firms, and in information technology units throughout the private and public sectors. |
| 2232 | Mechanical engineering technologists and technicians provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, components, tools, heating and ventilating systems, power generation and power conversion plants, manufacturing plants and equipment. They are employed by consulting engineering, manufacturing and processing companies, institutions and government departments. | Mechanical engineering technologists and technicians provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, components, tools, heating and ventilating systems, geothermal power plants, power generation and power conversion plants, manufacturing plants and equipment. They are employed by consulting engineering, manufacturing and processing companies, institutions and government departments. |
| 2263 | Inspectors in this unit group evaluate and monitor health and safety hazards and develop strategies to control risks in the workplace. They inspect restaurants, public facilities, industrial establishments, municipal water systems and other workplaces to ensure compliance with government regulations regarding sanitation, pollution control, the handling and storage of hazardous substances and workplace safety. They are employed throughout the private and public sectors. | Inspectors in this unit group evaluate and monitor health and safety hazards and develop strategies to control risks in the workplace. They inspect restaurants, industrial establishments, municipal water systems, public facilities, institutions and other workplaces to ensure compliance with government regulations regarding sanitation, pollution control, the handling and storage of hazardous substances and workplace safety. They are employed throughout the private and public sectors. |
| 3012 | This unit group includes registered nurses, registered psychiatric nurses and graduates of a nursing program who are awaiting registration (graduate nurses). They provide direct nursing care to patients, deliver health education programs and provide consultative services regarding issues relevant to the practice of nursing. They are employed in a variety of settings including hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, community agencies, companies and private homes, or they may be self-employed. | This unit group includes registered nurses, registered psychiatric nurses and graduates of a nursing program who are awaiting registration (graduate nurses). They provide direct nursing care to patients, deliver health education programs and provide consultative services regarding issues relevant to the practice of nursing. They are employed in a variety of settings including hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, community agencies, companies, private homes and public and private organizations or they may be self-employed. |
| 3121 | Optometrists examine eyes and diagnose ocular diseases and disorders. They prescribe and fit eyeglasses and contact lenses and recommend treatments such as exercises to correct vision problems or ocular disorders. They work in private practice, clinics and community health centres. | Optometrists examine eyes to assess and diagnose ocular diseases and disorders. They prescribe and fit eyeglasses and contact lenses and recommend treatments such as exercises to correct vision problems or ocular disorders. They work in private practice, clinics and community health centres. |
| 3125 | This unit group includes health professionals who diagnose and treat the diseases and injuries of patients and who are not elsewhere classified. This includes doctors of podiatric medicine, chiropodists and podiatrists, naturopaths, orthoptists and osteopaths. They work in private practices, clinics and hospitals. | This unit group includes health professionals who diagnose and treat the diseases and injuries of patients and who are not elsewhere classified. This includes doctors of podiatric medicine, chiropodists and podiatrists, naturopaths, orthoptists and doctors of osteopathic medicine. They work in private practices, clinics and hospitals. |

**Table 2**
**Modified unit group definitions**

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 3132 | Dietitians and nutritionists plan, implement and oversee nutrition and food service programs. They are employed in a variety of settings including hospitals, home health-care agencies and extended care facilities, community health centres, the food and beverage industry, the pharmaceutical industry, educational institutions, and government and sports organizations, or they may work as private consultants. | Dietitians and nutritionists plan, implement and oversee nutrition and food service programs. They are employed in a variety of settings including hospitals, home health-care agencies and extended care facilities, community health centres, the food and beverage industry, educational institutions, and government and sports organizations, or they may work as private consultants. |
| 3142 | Physiotherapists assess patients and plan and carry out individually designed treatment programs to maintain, improve or restore physical functioning, alleviate pain and prevent physical dysfunction in patients. Physiotherapists are employed in hospitals, clinics, industry, sports organizations, rehabilitation centres and extended care facilities, or they may work in private practice. | Physiotherapists assess patients and plan and carry out individually designed treatment programs to maintain, improve or restore physical functioning and mobility, alleviate pain and prevent physical dysfunction in patients. Physiotherapists are employed in hospitals, clinics, industry, sports organizations, rehabilitation centres and extended care facilities, or they may work in private practice. |
| 3217 | Cardiology technologists operate electrocardiogram and other electronic equipment to record cardiac activity of patients to aid in the diagnosis, monitoring and treatment of heart disease. Electrophysiological diagnostic technologists, not elsewhere classified, operate electroencephalographic, electromyographic and other electrophysiological diagnostic equipment to assist physicians in diagnosing diseases, injuries and abnormalities. Cardiology technologists and electrophysiological diagnostic technologists who are supervisors or instructors are included in this unit group. They are employed in clinics, hospitals and medical laboratories. | Cardiology technologists operate electrocardiogram equipment and use medical imaging technologies to record cardiac activity of patients to aid in the diagnosis, monitoring and treatment of heart disease. Electrophysiological diagnostic technologists, not elsewhere classified, operate electroencephalographic, electromyographic and other electrophysiological diagnostic equipment to assist physicians in diagnosing diseases, injuries and abnormalities. Cardiology technologists and electrophysiological diagnostic technologists who are supervisors or instructors are included in this unit group. They are employed in clinics, hospitals and medical laboratories. |
| 3233 | Licensed practical nurses provide nursing care usually under the direction of medical practitioners, registered nurses or other health team members. They are employed in hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, companies, private homes and community health centres. Operating room technicians are included in this unit group. | Licensed practical nurses provide nursing care usually under the direction of medical practitioners, registered nurses or other health team members. Operating room technicians prepare patients and provide assistance to medical practitioners prior to and during surgery. Licensed practical nurses are employed in hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, companies, private homes and community health centres. Operating room technicians are employed in hospitals. |
| 4154 | Ministers of religion conduct religious services, administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other functions associated with the practice of a religion. Ministers of religion perform these duties in churches, synagogues, temples or other places of worship. They may also work in other institutions such as schools, hospitals and prisons. | Professionals in this unit group conduct religious services, administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other functions associated with the practice of a religion. They perform these duties in churches, synagogues, temples or other places of worship. They may also work in other institutions such as schools, hospitals and prisons. |
| 4156 | Employment counsellors provide assistance and information to job seeker clients on all aspects of employment search and career planning. They also provide advice and information to employer clients regarding employment issues and human resources. Employment counsellors are employed by human resource departments of establishments, employment service organizations, consulting firms, correctional facilities and by federal and provincial governments. Supervisors of employment counsellors are included in this unit group. | Employment counsellors and career development practitioners provide assistance and information to job seeker clients on all aspects of employment search and career planning. They also provide advice and information to employer clients regarding employment issues and human resources. Employment counsellors and career development practitioners are employed by human resource departments of establishments, employment service organizations, consulting firms, correctional facilities and by federal and provincial governments. Supervisors of employment counsellors are included in this unit group. |
| 4216 | Instructors in this unit group teach courses, such as motor vehicle or motorcycle driving, sailing and navigation, sewing or other courses, which are outside of educational institutions and not primarily job-related. They are employed by driving schools, fabric retailers and other commercial establishments or they may be self-employed. This unit group also includes modelling and finishing school instructors, driver's licence examiners, who are employed by provincial governments and tutors who provide instruction in elementary or secondary school subjects. | Instructors in this unit group teach courses, such as motor vehicle or motorcycle driving, sailing and navigation, sewing or other courses, which are outside of educational institutions. They are employed by driving schools, fabric retailers and other commercial establishments or they may be self-employed. This unit group also includes modelling and finishing school instructors, driver's licence examiners, who are employed by provincial governments and tutors who provide instruction in elementary or secondary school subjects. |
| 4217 | This unit group includes brothers, nuns, monks, religious education workers and others who provide support to ministers of religion or to a religious community and who perform certain functions associated with the practice of a religion. They may perform these duties in churches, synagogues, temples or other places of worship or in institutions such as schools, hospitals and prisons. | This unit group includes brothers, nuns, monks, religious education workers and others who provide support to ministers of religion or to a religious community and who perform certain functions associated with the practice of a religion. They may perform these duties in churches, synagogues, temples or other places of worship; in institutions such as schools, hospitals and prisons; or in industrial facilities, corporate enterprises; or they may work in private practice. |

**Table 2**
**Modified unit group definitions**

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 4311 | Police officers protect the public, detect and prevent crime and perform other activities directed at maintaining law and order. They are employed by municipal and federal governments and some provincial and regional governments. This unit group includes railway police. | Police officers protect the public, detect and prevent crime and perform other activities directed at maintaining law and order. They are employed by municipal and federal governments and some provincial and regional governments. |
| 4313 | This unit group consists of Canadian Forces personnel who are non-commissioned officers (NCOs) or members of other non-commissioned ranks. They provide collective defence measures to protect Canadian waters, land, airspace and other interests. All ranks of non-commissioned officers and members in the air force, army, and navy are included in this unit group. | This unit group consists of Canadian Armed Forces personnel who are non-commissioned officers (NCOs) or members of other non-commissioned ranks. They provide collective defence measures to protect Canadian waters, land, airspace and other interests. All ranks of non-commissioned officers and members in the air force, army, and navy are included in this unit group. |
| 4411 | Home child care providers care for children on an ongoing or short-term basis. They care for the well-being and physical and social development of children, assist parents with child care and may assist with household duties. They provide care primarily in their own homes or in the children's homes, where they may also reside. They are employed by private households and child-care agencies, or they may be self-employed. Foster parents are included in this unit group. | Home child care providers care for children on an ongoing or short-term basis. They care for the well-being and physical and social development of children, assist parents with child care and may assist with household duties. They provide care primarily in their own homes or in the children's homes, where they may also reside. They are employed by private households and child-care agencies, or they may be self-employed. |
| 5111 | Librarians select, develop, organize and maintain library collections and provide advisory services for users. They are employed in libraries or in a department within a library. | Librarians select, develop, organize and maintain library collections and provide advisory services for users. They are employed in libraries or other establishments with library services throughout the public and private sectors. |
| 5131 | This unit group includes producers, directors, choreographers and others who oversee and control the technical and artistic aspects of film, television, radio, dance and theatre productions. They are employed by film production companies, radio and television stations, broadcast departments, advertising companies, sound recording studios, record production companies and dance companies. They may also be self-employed. | This unit group includes producers, directors, choreographers and others who oversee and control the technical and artistic aspects of film, television, video game, radio, dance and theatre productions. They are employed by film production companies, radio and television stations, video game companies, broadcast departments, advertising companies, sound recording studios, record production companies and dance companies. They may also be self-employed. |
| 5212 | This unit group includes workers who classify and catalogue museum artifacts and gallery works of art, construct and install exhibits and displays, restore, maintain and store museum and gallery collections, frame artwork, and perform other functions in support of curatorial and conservation activities. They are employed in museums and galleries. Picture framers and taxidermists may also be employed in retail settings or may be self-employed. This unit group also includes museum and other interpreters who conduct guided tours. They are employed by art galleries, museums, parks, aquariums, zoos, interpretive centres, botanical gardens, cultural centres, nature sanctuaries, historic and heritage sites, and other locations. | This unit group includes workers who classify and catalogue museum artifacts and gallery works of art, construct and install exhibits and displays, restore, maintain and store museum and gallery collections, frame artwork, and perform other functions in support of curatorial and conservation activities. They are employed in museums and galleries. Picture framers and taxidermists may also be employed in retail settings or may be self-employed. This unit group also includes museum and other interpreters who conduct guided tours. They are employed by art galleries, museums, parks, aquariums, zoos, interpretive centres, botanical gardens, cultural centres, nature sanctuaries, historic heritage sites, and other locations. |
| 5227 | This unit group includes workers who perform support duties related to broadcasting and to the production of motion pictures and the performing arts. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies and by theatre and stage companies. This unit group also includes projectionists employed by movie theatres. | This unit group includes workers who perform support duties related to broadcasting and to the production of motion pictures and the performing arts. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies and by theatre and stage companies. |
| 5251 | Athletes participate in competitive sports events on an amateur or professional basis. They play team sports such as hockey, baseball, football and lacrosse; or compete in individual sports such as skiing, figure skating, boxing or track and field; or in games such as poker or chess. Athletes are employed by professional team organizations or they may be self-employed. This unit group also includes competitors such as chess players and poker players. | Athletes participate in competitive sports events on an amateur or professional basis. They play team sports such as hockey, baseball, football and lacrosse; or compete in individual sports such as skiing, figure skating, boxing or track and field; or in games such as poker or chess. Athletes are employed by professional team organizations or they may be self-employed. |
| 6211 | Retail sales supervisors supervise and co-ordinate the activities of workers in the following unit groups: Retail Salespersons and Sales Clerks (6421), Cashiers (6611), Grocery Clerks and Store Shelf Stockers (6622) and Other Elemental Sales Occupations (6623). They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public, rental service establishments and businesses involved in door-to-door soliciting and telemarketing. | Retail sales supervisors supervise and co-ordinate the activities of workers in the following unit groups: Retail Salespersons (6421), Cashiers (6611), Store Shelf Stockers, Clerks and Order Fillers (6622) and Other Sales Related Occupations (6623). They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public, rental service establishments and businesses involved in door-to-door soliciting and telemarketing. |

## Table 2
## Modified unit group definitions

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 6322 | Cooks prepare and cook a wide variety of foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, educational institutions and other establishments. Cooks are also employed aboard ships and at construction and logging campsites. Apprentice cooks are included in this unit group. | Cooks prepare and cook a wide variety of foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, educational institutions and other establishments. Cooks are also employed aboard ships and at construction and logging campsites. |
| 6344 | Jewellers and related workers in this unit group fabricate, assemble, repair and appraise fine jewellery. Watch repairers and related workers in this unit group repair, clean, adjust and fabricate parts for clocks and watches. They are employed by jewellery, clock and watch manufacturers and retail stores, by jewellery and watch repair shops or they may be self-employed. | Jewellers and related workers fabricate, assemble, repair and appraise fine jewellery. Watch repairers and related workers repair, clean, adjust and fabricate parts for clocks and watches. They are employed by jewellery, clock and watch manufacturers and retail stores, by jewellery and watch repair shops or they may be self-employed. |
| 6523 | Airline ticket and service agents issue tickets, provide fare quotations, make reservations, conduct passenger check-in, trace missing baggage, arrange for cargo shipments and perform other related customer service duties to assist airline passengers. Airline ticket and service agents are employed by airline companies. Load planners, who plan the positioning of cargo on aircraft, are also included in this unit group. | Airline ticket and service agents issue tickets, provide fare quotations, make reservations, conduct passenger check-in, trace missing baggage, arrange for cargo shipments and perform other related customer service duties to assist airline passengers. Airline ticket and service agents are employed by airline companies. |
| 6524 | Ticket agents, cargo service representatives and related clerks (except airline), quote fares and rates, make reservations, issue tickets, process cargo shipment, check baggage and perform other related customer service duties to assist travellers. They are employed by bus and railway companies, freight forwarding and shipping companies, boat cruise operators and other public transit establishments and by travel wholesalers. | Ground and water transport ticket agents, cargo service representatives and related clerks, quote fares and rates, make reservations, issue tickets, process cargo shipments, check baggage and perform other related customer service duties to assist travellers. They are employed by bus and railway companies, freight forwarding and shipping companies, boat cruise operators and other public transit establishments and by travel wholesalers. |
| 6533 | Casino workers operate gaming tables, maintain slot machines, accept keno wagers, pay out winning bets and jackpots and collect losing bets. They are employed by casinos. | Casino workers operate gaming tables, assist patrons using slot machines, accept keno wagers, pay out winning bets and jackpots and collect losing bets. They are employed by casinos. |
| 6552 | This unit group includes customer and information services representatives who answer enquiries and provide information regarding an establishment's goods, services and policies and who provide customer services such as receiving payments and processing requests for services. They are employed by retail establishments, contact centres, insurance, telephone and utility companies and other establishments throughout the private and public sectors. | This unit group includes customer and information services representatives who answer enquiries and provide information regarding an establishment's goods, services and policies and who provide customer services such as receiving payments and processing requests for services. They are employed by retail establishments, contact centres, insurance, telecommunications and utility companies and other establishments throughout the private and public sectors. |
| 6562 | Workers in this unit group provide facial and body treatments designed to enhance an individual's physical appearance. They are employed in beauty salons, electrolysis studios, scalp treatment and hair replacement clinics and other similar establishments and in cosmetic departments of retail establishments such as pharmacies and department stores, or they may be self-employed. | Estheticians, electrologists and related workers in this unit group provide facial and body treatments designed to enhance an individual's physical appearance. They are employed in beauty salons, electrolysis studios, scalp treatment and hair replacement clinics and other similar establishments and in cosmetic departments of retail establishments such as pharmacies and department stores, or they may be self-employed. |
| 6622 | Grocery clerks and store shelf stockers pack customers' purchases, price items, stock shelves with merchandise, and fill mail and telephone orders. They are employed in retail establishments, such as grocery, hardware and department stores, and in warehouses. | Store shelf stockers, clerks and order fillers pack customers' purchases, price items, stock shelves with merchandise, and fill mail and telephone orders. They are employed in retail establishments, such as grocery, hardware and department stores, and in warehouses. |
| 6711 | Workers in this unit group include counter attendants, food preparers, kitchen helpers, food service helpers and dishwashers. Counter attendants and food preparers prepare, heat and finish cooking simple food items and serve customers at food counters. Kitchen helpers, food service helpers and dishwashers clear tables, clean kitchen areas, wash dishes, and perform various other activities to assist workers who prepare or serve food and beverages. They are employed by restaurants, cafes, hotels, fast food outlets, cafeterias, hospitals and other establishments. | Food counter attendants and food preparers prepare, heat and finish cooking simple food items and serve customers at food counters. Kitchen helpers, food service helpers and dishwashers clear tables, clean kitchen areas, wash dishes, and perform various other activities to assist workers who prepare or serve food and beverages. They are employed by restaurants, cafés, hotels, fast food outlets, cafeterias, hospitals and other establishments. |

## Table 2
## Modified unit group definitions

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 6722 | This unit group includes amusement occupations such as operators of amusement rides, games and other attractions, and attendants in amusement, recreation and sports facilities who assist patrons, collect tickets and fees and supervise the use of recreational and sports equipment. They are employed by amusement parks, fairs, exhibitions, carnivals, arenas, billiard parlours, bowling alleys, golf courses, ski centres, tennis clubs, campgrounds and other recreational and sports facilities. | This unit group includes operators of amusement rides, games and other attractions, and attendants in amusement, recreation and sports facilities who assist patrons, collect tickets and fees and supervise the use of recreational and sports equipment. They are employed by amusement parks, fairs, exhibitions, carnivals, arenas, billiard parlours, bowling alleys, golf courses, ski centres, tennis clubs, campgrounds and other recreational and sports facilities. |
| 6731 | Light duty cleaners clean the lobbies, hallways, offices and rooms of hotels, motels, resorts, hospitals, schools, office and other buildings, and private residences. They are employed by hotels, motels, resorts, recreational facilities, hospitals and other institutions, building management companies, cleaning service companies and private individuals. | Light duty cleaners clean lobbies, hallways, offices and rooms of hotels, motels, resorts, hospitals, schools, office buildings and private residences. They are employed by hotels, motels, resorts, recreational facilities, hospitals and other institutions, building management companies, cleaning service companies and private individuals. |
| 6733 | Janitors, caretakers and building superintendents clean and maintain the interior and exterior of commercial, institutional and residential buildings and their surrounding grounds. Building superintendents employed in large establishments are responsible for the operation of the establishment and may also supervise other workers. They are employed by office and apartment building management companies, condominium corporations, educational institutions, health care facilities, recreational and shopping facilities, religious establishments, and industrial and other establishments. | Janitors, caretakers and building superintendents clean and maintain the interior and exterior of commercial, institutional and residential buildings and their surrounding grounds. Building superintendents employed in large establishments are responsible for the operation of the establishment and may also supervise other workers. They are employed by office and apartment building management companies, condominium corporations, educational institutions, health care facilities, recreational and shopping facilities, religious, industrial and other establishments. |
| 6742 | This unit group includes other support occupations, not elsewhere classified, primarily concerned with the provision of services. Those in occupations in this unit group are employed by a wide range of establishments, and may be self-employed. | This unit group includes other support occupations, not elsewhere classified, primarily concerned with the provision of services. Workers in this unit group are employed in a wide range of establishments or may be self-employed. |
| 7291 | Roofers install, repair or replace flat roofs and shingles, shakes or other roofing tiles on sloped roofs. Shinglers install and replace shingles, tiles and similar coverings on sloped roofs. They are employed by roofing and general contractors, or they may be self-employed. | Roofers install, repair or replace flat roofs as well as shingles, shakes or other roofing tiles on sloped roofs. Shinglers install and replace shingles, tiles and similar coverings on sloped roofs. They are employed by roofing and general contractors, or they may be self-employed. |
| 7313 | Refrigeration and air conditioning mechanics install, maintain, repair and overhaul residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems and combined heating, ventilation and cooling systems. They are employed by refrigeration and air conditioning installation contractors, various industrial settings, food wholesalers, engineering firms and retail and servicing establishments. Transport refrigeration mechanics are included in this unit group. | Heating, refrigeration and air conditioning mechanics install, maintain, repair and overhaul residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems and combined heating, ventilation and cooling systems. They are employed by heating, refrigeration and air conditioning installation contractors, various industrial settings, food wholesalers, engineering firms and retail and servicing establishments. Transport refrigeration mechanics are included in this unit group. |
| 7334 | Mechanics in this unit group test, repair and service motorcycles, motor scooters, snowmobiles, forklifts and all-terrain vehicles. They are employed by service shops of motorcycle dealers and retailers and by independent service establishments. | Mechanics in this unit group test, repair and service motorcycles, motor scooters, snowmobiles, outboard motors, forklifts and all-terrain vehicles. They are employed by service shops of motorcycle dealers and retailers and by independent service establishments. |
| 7335 | Workers in this unit group test, repair and service small gasoline and diesel-powered engines and equipment, such as garden tractors, outboard motors, lawn mowers and other related equipment. They are employed by dealer service shops and by independent service establishments. | Workers in this unit group test, repair and service small gasoline and diesel-powered engines and equipment, such as garden tractors, lawn mowers and other related equipment. They are employed by dealer service shops and by independent service establishments. |
| 7532 | Workers in this unit group stand watch, operate and maintain deck equipment, perform other deck and bridge duties, assist ship engineer officers to operate, maintain and repair engines, machinery and auxiliary equipment aboard ships or self-propelled vessels. They are employed by marine transportation companies and federal government departments. | Workers in this unit group stand watch, operate and maintain deck equipment, perform other deck and bridge duties and assist ship engineer officers to operate, maintain and repair engines, machinery and auxiliary equipment aboard ships or self-propelled vessels. They are employed by marine transportation companies and federal government departments. |
| 8222 | Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in drilling for oil or gas, operating service rigs, or providing oil and gas well services. They are employed by drilling and well service contracting companies and by petroleum producing companies. This unit group includes oilfield consultants who may be self-employed. | Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in drilling for oil or gas, operating service rigs, or providing oil and gas well services. They are employed by drilling and well service contracting companies and by petroleum producing companies. Oil field consultants may be self-employed. |

## Table 2
## Modified unit group definitions

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 8252 | Agricultural service contractors, who own and operate their own businesses, provide agricultural services such as livestock and poultry breeding, soil preparation, crop planting, crop spraying, cultivating or harvesting. Farm supervisors supervise the work of general farm workers and harvesting labourers. Specialized livestock workers carry out feeding, health and breeding programs on dairy, beef, sheep, poultry, hog and other livestock farms. | Agricultural service contractors, who own and operate their own businesses, provide agricultural services such as livestock and poultry breeding, soil preparation, crop planting, crop spraying, cultivating or harvesting. Farm supervisors supervise the work of general farm workers and harvesting labourers. Specialized livestock workers carry out feeding, health and breeding programs on dairy, beef, sheep, poultry, swine and other livestock farms. |
| 8262 | Fishermen/women operate fishing vessels to pursue and land fish and other marine life. They are usually self-employed owner-operators of fishing vessels. | Fishermen/women operate fishing vessels less than 100 gross tonnes to pursue and land fish and other marine life. They are usually self-employed owner-operators of fishing vessels. |
| 8613 | This occupational group includes aquaculture support workers, marine plant gatherers, shellfish diggers and other labourers in aquaculture and fishing. Aquaculture support workers are employed by public or private fish hatcheries and commercial aquatic farms. Marine plant gatherers and shellfish harvesters may be self-employed. | This occupational group includes aquaculture support workers, marine plant gatherers, shellfish diggers and other labourers in aquaculture and fishing. Aquaculture support workers are employed by public or private fish hatcheries and commercial aquatic farms. Marine plant gatherers and mollusk harvesters may be self-employed. |
| 9211 | Supervisors, mineral and metal processing, supervise and co-ordinate the activities of workers in the following groups: Central Control and Process Operators, Mineral and Metal Processing (9231), Machine Operators and Related Workers in Metal and Mineral Products Processing and Manufacturing (941) and Labourers in Mineral and Metal Processing (9611). They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries. | Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in mineral and metal processing and manufacturing. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries. |
| 9213 | Supervisors in this unit group supervise and co-ordinate the activities of workers who operate processing and packaging machines, and workers who grade food, beverage and associated products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food, beverage and associated products processing establishments. | Supervisors in this unit group supervise and co-ordinate the activities of workers who operate processing and packaging machines, and workers who grade food and beverage products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food and beverage processing establishments. |
| 9215 | Supervisors in this unit group supervise and co-ordinate the activities of workers in the following groups: Pulping, Papermaking and Coating Control Operators (9235), Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing and Manufacturing (943) and Labourers in Wood, Pulp and Paper Processing (9614). They are employed by pulp and paper companies, paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies. | Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in pulp and paper production and wood processing and manufacturing. They are employed by pulp and paper companies, paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies. |
| 9232 | Petroleum, gas and chemical process operators monitor and operate petroleum, petrochemical and chemical plants and monitor, adjust and maintain processing units and equipment in these plants. They are employed by petroleum and natural gas processing, pipeline and petrochemical companies and industrial, agricultural and specialty chemical and pharmaceutical companies. | Central control and process operators in this unit group monitor and operate petroleum, petrochemical and chemical plants and monitor, adjust and maintain processing units and equipment in these plants. They are employed by petroleum and natural gas processing, pipeline and petrochemical companies and industrial, agricultural and specialty chemical and pharmaceutical companies. |
| 9241 | Power engineers operate and maintain reactors, turbines, boilers, generators, stationary engines and auxiliary equipment to generate electrical power and to provide heat, light, refrigeration and other utility services for commercial, industrial and institutional buildings and other work sites. Power systems operators monitor and operate switchboards and related equipment in electrical control centres to control the distribution of electrical power in transmission networks. They are employed by power generation plants, electrical power utilities, manufacturing plants, hospitals, universities and government and commercial establishments. | Power engineers operate and maintain reactors, turbines, boilers, generators, stationary engines and auxiliary equipment to generate electrical power and to provide heat, light, refrigeration and other utility services for commercial, institutional and industrial plants and facilities. Power systems operators monitor and operate switchboards and related equipment in electrical control centres to control the distribution of electrical power in transmission networks. They are employed by power generation plants, electrical power utilities, manufacturing plants, hospitals, universities and government and commercial establishments. |
| 9411 | Workers in this unit group operate single-function machines or machinery that is part of a larger production process to process mineral ore and metal products. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries and cement processing plants. | Workers in this unit group operate machinery to process mineral ore and metal. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries and cement processing plants. |

## Table 2
## Modified unit group definitions

| NOC unit group | From 2011 | To 2016 |
|---|---|---|
| 9461 | Process control and machine operators in this unit group operate multi-function process control machinery and single-function machines to process and package food, beverage and associated products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries, leaf tobacco products plants and other food, beverage and associated products processing establishments. | Process control and machine operators in this unit group operate multi-function process control machinery and single-function machines to process and package food and beverage products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries, and other food and beverage processing establishments. |
| 9462 | Workers in this unit group prepare meat and poultry for further processing, for packaging or for marketing. They are employed in meat and poultry slaughtering, processing and packing establishments. | Workers in this unit group prepare meat and poultry for further processing or for packaging for wholesale distribution. They are employed in meat and poultry slaughtering, processing and packing establishments. |
| 9465 | Testers and graders in this unit group test or grade ingredients and finished food, beverage or associated products to ensure conformance to company standards. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food, beverage and associated products processing plants. | Testers and graders in this unit group test or grade ingredients and finished food or beverage products to ensure conformance to company standards. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food and beverage processing plants. |
| 9617 | Labourers in this unit group perform material handling, clean-up, packaging and other elemental activities related to food, beverage and associated products processing. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food, beverage and associated products processing and packaging plants. | Labourers in this unit group perform material handling, clean-up, packaging and other elemental activities related to food and beverage processing. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food and beverage processing and packaging plants. |

Some job titles were moved from one unit group to another to better define the content of the unit groups.

## Table 3
## Placement of titles in unit groups

| Titles | NOC 2011 unit group | NOC 2016 Version 1.0 unit group |
|---|---|---|
| admission director – health care | 0311 | 0114 |
| tax collector; collector of taxes | 1435 | 1228 |
| fire suppression crew foreman/woman - forestry | 8211 | 2223 |
| prevention officer - occupational health and safety | 4165 | 2263 |

## Overview of to NOC 2016 Version 1.1 update

The NOC 2016 Version 1.1 was released in December 2017. This version was created, in conjunction with ESDC, to address updates requested following the May 2017 Public Consultation invitation to participate in the update of NOC. The summary of the changes made to this version can be viewed at the following link: Notice of release of the National Occupational Classification (NOC) 2016 Version 1.1 (http://www.statcan.gc.ca/eng/subjects/standard/noc/notice/noc-08).

### NOC classification criteria

The two major attributes of jobs used as classification criteria in developing the NOC are skill type and skill level. A description of skill levels is presented first as the definitions of skill types incorporate some information related to the concept of skill level. Other factors, such as industry and occupational mobility, are also taken into consideration.

### Skill level

Skill level is defined first of all by the amount and type of education and training required to enter and perform the duties of an occupation. In determining skill level, the experience required for entry, and the complexity and responsibilities typical of an occupation are also considered in relation to other occupations.

Four skill level categories are identified in the NOC. Each major, minor and unit group is assigned to one of the skill levels.

The skill level categories are broad aggregates, reflecting four commonly accepted educational, training or preparatory routes for entering employment. Requirements for individual unit groups or occupations may overlap between the boundaries of the skill levels. For example, some occupations can be entered with either a university degree or a college diploma. When the entry requirements for a unit group or occupation reflect a range of possible educational and training specifications, skill level placement of the group was determined by considering several factors. These include the requirements most generally demanded by employers, the minor group context, complexity of overall responsibilities and knowledge requirements as well as further training and specialization acquired on the job.

The classification describes the educational and training requirements for occupations. However, the education and experience of particular job incumbents may not correspond exactly to the level described. Individuals may be over-qualified for their work or they may work in occupations for which the entry requirements have changed after they became employed.

It is important to note that the skill level categories are not intended to designate socio-economic status or prestige. Rather they are intended to reflect actual occupational entry requirements. These requirements are expressed in terms of the formal educational system and other types of training specified by employers.

Management occupations, while considered a skill type, are assigned to the skill level A category. These occupations are at the top of organizational hierarchies and as such, are characterized by high levels of responsibility, accountability and subject matter expertise gained through either formal education or extensive occupational experience. Management occupations span the entire classification structure and are found in all sectors or areas of the labour market. A range of factors are taken into consideration as determinants for employment in management occupations.

The skill level categories of the NOC are outlined and defined below.

### NOC skill level criteria - education/training and other criteria

**Skill level A**

- University degree (bachelor's, master's or doctorate)

**Skill level B**

- Two to three years of post-secondary education at community college, institute of technology or CÉGEP
  *or*

- Two to five years of apprenticeship training
  *or*
- Three to four years of secondary school and more than two years of on-the-job training, occupation-specific training courses or specific work experience
- Occupations with supervisory responsibilities are also assigned to skill level B.
- Occupations with significant health and safety responsibilities (e.g., fire fighters, police officers and licensed practical nurses) are assigned to skill level B.

**Skill level C**

- Completion of secondary school and some short-duration courses or training specific to the occupation
  *or*
- Some secondary school education, with up to two years of on-the-job training, training courses or specific work experience

**Skill level D**

- Short work demonstration or on-the-job training
  *or*
- No formal educational requirements

Skill level is referenced in the code for all occupations with the exception of management occupations. For all non-management occupations the second digit of the numerical code corresponds to skill level. Skill levels are identified as follows: level A – 0 or 1; level B – 2 or 3; level C – 4 or 5; and level D – 6 or 7.

### Skill type

Skill type is defined as the type of work performed, although other factors related to skill type are also reflected in the NOC. One of these factors is similarity with respect to the educational discipline or field of study required for entry into an occupation. Another factor is the industry of employment where experience within an internal job ladder or within a specific industry is usually a prerequisite for entry. The 10 skill types, 0 to 9, are presented below and are also identified in the first digit of the NOC numerical code for all occupations.

The ten broad occupational categories of the NOC are based on skill type.

#### 0. Management occupations

This skill type category contains legislators, senior management occupations and middle management occupations. While management occupations are defined as a skill type, they are also found throughout all other skill type areas of the classification. The first digit of the code for all management occupations is 0.

These occupations are considered to be at the top of the organizational hierarchy of workplaces or businesses. Decision-making that affects the organization as a whole, or departments within organizations, is undertaken by management. As such, management is characterized by high levels of responsibility, accountability and subject matter expertise. Expertise is acquired through either formal education or extensive occupational experience. For these reasons all management occupations in the NOC 2016 version 1.1 are also included within skill level A.

#### 1. Business, finance and administration occupations

This category contains occupations that are concerned with providing financial and business services, administrative and regulatory services and clerical supervision and support services. Some occupations in this category are unique to the financial and business service sectors; however, most are found in all industries.

Often, occupations at skill levels A and B are supplied from educational programs specific to the profession or occupation. Some occupations at skill level B are also supplied from experienced workers in related administrative support occupations.

### 2. Natural and applied sciences and related occupations

This category contains professional and technical occupations in the sciences, including physical and life sciences, engineering, architecture and information technology.

Occupations in this skill type category require post-secondary education in an appropriate scientific discipline. Progression from occupations in skill level B to occupations in skill level A is usually dependent on completion of additional formal education.

### 3. Health occupations

This category includes occupations concerned with providing health care services directly to patients and occupations that provide support to professional and technical staff. Most occupations in this skill type category require post-secondary education in a related health care program. Progression from occupations in skill level B to occupations in skill level A is usually dependent on completion of additional formal education. Occupations in skill level C require short training programs.

### 4. Occupations in education, law and social, community and government services

This skill type category includes a range of occupations that are concerned with law, teaching, counselling, conducting social science research, developing government policy, and administering government and other programs.

Occupations in this skill type category usually require completion of a related post-secondary program. Progression from occupations in skill level B to occupations in skill level A is not usually possible without completion of additional formal education.

### 5. Occupations in art, culture, recreation and sport

This skill type category includes professional and technical occupations related to art and culture, including the performing arts, film and video, broadcasting, journalism, writing, creative design, libraries and museums. It also includes occupations in recreation and sport.

This category is characterized by occupations which are linked by subject matter to formal post-secondary educational programs but which have, for the most part, a range of acceptable qualifications. Occupations in this category are also characterized by a requirement for creative talent, such as for designers and performers, or for athletic ability. Unit groups for occupations that usually require university graduation in a professional discipline, such as journalism or library science, have been classified in skill level A. Most others have been classified in skill level B in recognition of the wide range of entry routes that are possible.

### 6. Sales and service occupations

This skill type category contains sales occupations, personal and protective service occupations and occupations related to the hospitality and tourism industries.

Occupations in skill level B of this category can be linked, for the most part, to formal post-secondary or occupation-specific training programs. Others are characterized by periods of formal on-the-job training other than apprenticeship. Progression from occupations in skill level C or D to those in skill level B usually require completion of related training programs. Some progression through experience is possible for supervisory positions.

### 7. Trades, transport and equipment operators and related occupations

This skill type category includes construction and mechanical trades, trades supervisors and contractors and operators of transportation and heavy equipment. These occupations are found in a wide range of industrial sectors, with many occurring in the construction and transportation industries.

This category includes most of the apprenticeable trades, including all of those related to the construction industry. Other occupations in this category usually require completion of college or other programs combined with on-the-job training. Progression to supervisory or self-employed contractor status is possible with experience. There is limited mobility or transferability of skills among occupations in this category due to specific apprenticeship, training and licensing requirements for most occupations.

**8. Natural resources, agriculture and related production occupations**

This category contains supervisory and equipment operation occupations in the natural resource-based sectors of mining, oil and gas production, forestry and logging, agriculture, horticulture and fishing. Most occupations in this category are industry specific and do not occur outside of the primary industries.

Occupations within skill level B of this category generally require completion of college or other post-secondary training programs. Some, however, are characterized by industry-based training and progression through experience.

**9. Occupations in manufacturing and utilities**

This category contains supervisory and production occupations in manufacturing, processing and utilities.

Occupations in this category are characterized by internal progression and on-the-job training. Workers typically start out in these occupations at entry-level positions and progress to increasingly higher skilled occupations through experience. Mobility between employers or industries may be limited by seniority provisions of collective agreements. The occupations in skill level B of this category are increasingly technical in nature and post-secondary training programs are required for some.

### Industry

Industry and occupation are separate variables which can be cross-tabulated to provide detailed information on employment. However, many occupations are found almost solely within one particular industry. For example, mining and automobile assembly occupations occur each within their respective industrial sectors.

During the original research and development of the NOC, it was realized that in many industries, occupational mobility is determined more by internal job ladders than by functional specialization. In consequence, some unit groups include workers of a particular skill level within a specific industry. Although the occupational breakdown resembles in part an industrial breakdown, the variables remain separate and distinct.

Industry was used in the development of classification categories for senior management occupations, for occupations in natural resources, agriculture and related production and for occupations in manufacturing and utilities.

### Occupational mobility

In developing the NOC, an effort was made to consider mobility or transferability of skills between occupations. The objective was to develop unit groups where the potential for mobility, or substitution of workers, would be greater within the group than between groups. Movement within groups usually follows when the group is homogeneous in skill level and skill type, indicating increased potential for transferability of competencies and development of specialization. Movement between groups, or inter-occupational mobility, usually reflects a change in skill level (e.g., vertical mobility) or a change in skill type (e.g., acquisition of new responsibilities and diversified skills).

The degree of occupational mobility that exists for unit groups varies. Many unit group descriptions include a statement that indicates the potential for, and type of, mobility that characterizes the unit group.

### Other classification considerations

In addition to the previously mentioned criteria, other factors were considered in determining the boundaries between unit groups and the contents of each group. These additional factors were the size of the unit groups and the codability or operational feasibility of the groups. Codability relates to the ease of accurately coding or assigning reported job titles from survey respondents to the occupational groups of the classification.

The size (or estimated number of workers) of the unit group was considered for reasons of statistical reliability and confidentiality. Generally, unit groups which contain fewer than 1,000 Canadian workers have not been delineated.

Because the NOC structure is used to code responses to Census of Population, Labour Force Surveys and other surveys, it must provide a set of unit groups that can be used for this operational application. The insufficient precision of some survey responses and ambiguities of language were given consideration in finalizing the unit groups.

### Issues and conventions of the NOC

Some of the many issues that were encountered in the development of the NOC and the conventions adopted in response are discussed in the following paragraphs.

#### Management occupations

Management occupations present a special problem for reliable coding of occupational survey responses. In many cases there is little indication of the level of responsibility, the size of the enterprise or division managed, or the field of specialization.

To be of practical use, a classification of managers must be a compromise between the theoretically optimal and the practical solutions.

Senior management occupations (in major group 00) have been divided on the basis of industry of employment into six unit groups.

**Middle and other management occupations** are divided into three major groups, 18 minor groups and 42 unit groups on the basis of specialization (e.g., Purchasing managers) or industry of employment (e.g., Postal and courier services managers). In certain cases (e.g., Managers in transportation) groups defined by industry also contain managers in that specialization regardless of their industry of employment.

#### Supervisors

Supervisors and foremen/women have generally been classified in skill level B.

In most cases, professional and technical occupations are supervised by managerial or professional personnel respectively. However, where supervisors are identified for professional and technical groups, they are generally classified in the same unit groups as the occupations supervised.

Supervisors in the following occupational categories have been classified in supervisor unit groups or minor groups separate from the workers supervised:

- administrative services occupations
- nursing occupations
- sales and service occupations
- trades and transport and equipment operators
- occupations in natural resources and agriculture
- occupations in manufacturing and utilities.

Most minor and unit groups in the occupational categories listed above have a corresponding supervisory group. Occasionally, as in minor group 431, Occupations in front-line public protection services, supervision is provided by managers and there are no corresponding supervisory groups in major group 43.

#### Trades

All apprenticeable trades are included in skill level B. Their inclusion does not imply an exact equivalence of skill between all trades, but rather that they occupy a range that lies within the boundaries of this skill level category. Information on entry requirements is provided within each unit group description.

#### Inspectors, testers and graders

Generally, inspectors who require post-secondary education have been classified in separate unit groups in skill level B or with technicians and technologists, also in skill level B. Other non-technical inspectors, testers, graders and samplers have been included either in separate unit groups covering occupations in processing industries or in unit groups of assemblers and fabricators in manufacturing industries. This is reflective of patterns of employment found within industries and the increasing responsibility for quality control that is placed on manufacturing production workers.

### Apprentices and trainees

Apprentices and trainees have been classified in the same unit groups as the occupations for which they are training. Similarly, interns, residents and articling students are classified with their respective professional groups.

This convention has been adopted of necessity to prevent a proliferation of unit groups of apprentices. It is not intended to imply equivalence or interchangeability of apprentices or trainees with fully qualified workers.

## Coding to NOC 2016 Version 1.1

The NOC provides an overall structure for classifying occupations according to **kind of work performed.** The lists of example titles are merely indicative of the types of occupations that fit within specific unit groups. **The lists of example titles are not exhaustive nor are they intended to be.**

When coding an occupation, all the relevant facts about the job and its environment should be obtained. These include the kind of work performed, the most important activities or duties, the job titles, the kind of business, industry or service, and the class of worker described earlier. The more complete and comprehensive the information the coder is able to assemble about the duties performed by a worker on a particular job, the easier it will be to determine the appropriate classification.

To code an occupation, it is possible to start with either the classification structure or the search tool.

### Coding and the NOC 2016 Version 1.1 classification structure

When using the NOC for coding, it is best to exploit the hierarchical nature of the classification. First the **broad occupational category** (skill type) which seems most likely to contain the job should be identified. Next the most appropriate **major group** within the broad occupational category should be found. Skill level can also provide a guide to locating major groups by considering titles with terms such as "technical", "supervisor", "helper", and "labourer". The process should be continued to find the most appropriate **minor group** within the major group selected. Finally the most appropriate **unit group** within the minor group selected should be identified. The unit group definition should be read carefully before deciding if this unit group offers the best possible classification. In addition, the example titles listed for the unit group should be examined to ensure that the choice is actually the best.

As indicated previously, the first two digits of each code convey meaning with respect to the group's skill type and skill level category.

For all occupations, including management, the **first digit** of each code identifies the major, minor and unit group as belonging to one of the **skill type** categories. However, all management occupations are also included as part of skill level A.

For all non-management occupations, the **second digit** of each code identifies the major, minor and unit group as belonging to one of the four **skill level** categories.

For management occupations, the first two digits also convey meaning. The first digit is always 0 to convey management, while the second digit conveys the skill type category in which the management occupation is found.

The following charts summarize and illustrate the meanings embedded in the coding system.

| The skill type category is..... | when the first digit is... |
|---|---|
| Management occupations | 0 |
| Business, finance and administration occupations | 1 |
| Natural and applied sciences and related occupations | 2 |
| Health occupations | 3 |
| Occupations in education, law and social, community and government services | 4 |
| Occupations in art, culture, recreation and sport | 5 |
| Sales and service occupations | 6 |
| Trades, transport and equipment operators and related occupations | 7 |
| Natural resources, agriculture and related production occupations | 8 |
| Occupations in manufacturing and utilities | 9 |

| The skill level category is... | when the second digit is... |
|---|---|
| Skill Level A | 0 or 1 |
| Skill Level B | 2 or 3 |
| Skill Level C | 4 or 5 |
| Skill Level D | 6 or 7 |

**Important note:**

For management, the first digit is always 0. Senior managers in major group 00 are generally managers of middle managers, therefore the second digit is also 0. For middle management occupations, the second digit represents the skill type categories, from 1 to 9, as above. All management occupations are included in skill level A.

### Examples of codes and their meaning

**9231**

The first digit indicates skill type category 9

- Occupations unique to processing, manufacturing and utilities

The second digit indicates skill level category B

**6533**

The first digit indicates skill type category 6

- Sales and service occupations

The second digit indicates skill level category C

**0212**

The first digit 0 always indicates a management occupation

- All management occupations are part of skill level A

The second digit indicates management in skill type category 2

- Natural and applied sciences and related occupations

## Coding procedures for problem responses

The procedure described above assumes responses contain sufficient information for coding. Unfortunately, depending upon the survey methods used, some responses may be problematic. This occurs when the information in the response is either vague or contradictory. Experience at Statistics Canada suggests the following approaches to resolving such problems.

### 1) Coding vague responses

It is suggested that vague responses be coded only to the level within the classification that is possible. Of course, before doing so, any information that is available about the respondent should be consulted.

### 2) Using education in coding

This is especially useful in coding occupational responses that are vague. The most reliable way of using education is as an exclusionary edit. Certain occupations require a minimum education and it is possible to exclude vague responses from being coded to such occupations if the respondent does not have the minimum education required. Great care must be taken when using education in occupational coding and it should only be used as a last resort.

### 3) Coding when the response contains contradictory information

Sometimes the responses will give a title and a description of work performed that are contradictory. A response "labourer, driving dump truck" is contradictory in terms of the classification, as driving a truck is not considered elemental work. This response should be coded as a truck driver in 7511 Transport truck drivers.

In general, it is best to let the description of the work performed predominate over titles when coding.

Some titles can be misleading. Titles that have manager as part of the title are sometimes not managers. For example, project managers and case managers are usually not managers and must be coded based on a description of their work. Special care must be given to responses that have manager, labourer, or consultant as part of the title as these terms have a variety of meanings in the workplace.

### 4) Coding responses containing two or more occupations

Where two or more occupations are reported in reply to a question on occupation, the first one mentioned should be coded unless there is additional information to suggest otherwise.

## Classification rules to consider when coding

### Managers

Managers are usually classified to the broad occupational category 0 Management Occupations. Within this category the senior managers that are the top of a management hierarchy as denoted by terms such as president, chief executive officer, etc. are classified in major group 00 Senior management occupations.

Managers with a management specialty, such as human resource management, are classified according to specialty in major group 01-05 Specialized middle management occupations. However, senior managers with a specialist responsibility would be classified with senior management in major group 00 Senior management occupations.

An attempt has been made to isolate many of the managers of small businesses by classifying managers of retail stores, restaurants, hotels and similar businesses in a separate major group 06 Middle management occupations in retail and wholesale trade.

All other managers are classified according to the type of business managed within major group 07-09 Middle management occupations in trades, transportation, production and utilities.

### Proprietors

As a general rule, the class of worker status, that is, whether the respondent works for wages or is self-employed, is not considered for classification purposes. An exception is made for proprietors in retail trade, food and accommodation services and residential home building. These are classified as managers to the following unit groups:

- 0621 - Retail and wholesale trade managers
- 0631 - Restaurant and food service managers
- 0632 - Accommodation service managers
- 0712 - Home building and renovation managers

### Contractors

Contractors are classified in several areas of the classification. General contractors in construction are classified in unit group 0711 Construction managers. Renovation contractors and home building contractors are classified in unit group 0712 Home building and renovation managers.

Contractors specializing in a specific trade such as plumbing, electrical, carpentry, etc., are classified together with supervisors to the appropriate unit group for that trade. That is, a plumbing contractor is classified to unit group 7203 Contractors and supervisors, pipefitting trades.

### Supervisors and foremen/women

Supervisors are classified to separate unit groups for supervisors where they exist. These are found in the following minor groups for supervisors:

- 121 - Administrative services supervisors
- 621 - Retail sales supervisors
- 631 - Service supervisors
- 720 - Contractors and supervisors, industrial, electrical and construction trades and related workers
- 730 - Contractors and supervisors, maintenance trades and heavy equipment and transport operators
- 821 - Supervisors, logging and forestry
- 822 - Contractors and supervisors, mining, oil and gas
- 825 - Contractors and supervisors, agriculture, horticulture and related operations and services
- 921 - Supervisors, processing and manufacturing occupations

- 922 - Supervisors, assembly and fabrication

This unit group for supervisors is found outside of the supervisor minor groups:

- 3011 - Nursing co-ordinators and supervisors

Where a separate unit group does not exist, supervisors are classified with the workers supervised. For example, in most professional major groups there are no separate unit groups for supervisors, the one exception being unit group 3011 Nursing co-ordinators and supervisors.

Technical occupations follow a similar rule and there are no separate unit groups for supervisors in this area.

Even where separate supervisory unit groups exist, "lead hands" are not classified to them as previous research has indicated that supervision is usually only a minor part of such jobs.

### Apprentices

Apprentices are classified within the groups for tradesmen/women. For example an apprentice carpenter is classified to the appropriate trade group, unit group 7271 Carpenters.

### Helpers

Helpers are usually considered as labourers. Most helpers will be found in the building trades such as carpenter's helper, mason's helper, roofer's helper, etc. These jobs are not to be confused with formal apprenticeships and are not classified as tradesmen/women but are classified to unit group 7611 Construction trades helpers and labourers.

### Labourers

Labourers are classified in separate unit groups in the following major groups:

- 76 - Trades helpers, construction labourers and related occupations
- 86 - Harvesting, landscaping and natural resources labourers
- 96 - Labourers in processing, manufacturing and utilities

## Sample questions for obtaining additional occupational information

The following questions indicate the type of information and the format that could be used to obtain the facts necessary to classify an occupation.

**a) For whom did you work?**

- Name of firm, government agency, etc.
- Department, section or plant.

**b) What kind of business, industry or service was this?**
Give full description; for example, paper box manufacturing, road construction, retail shoe store, secondary school, dairy farm.

**c) What was your work or occupation?**
Give full description; for example, police officer, trapper, primary school teacher, community health nurse, truck driver, artisan, hairdresser.

**d) In this work, what were your main activities?**
For example, law enforcement, skinning animals, teaching Grade 2, treating patients, driving a truck, carving soapstone, cutting hair.

**e) In this job or business, were you mainly:**

- Working for wages, salary, tips or commission?

- Working without pay for your spouse or another relative in a family farm or business?
- Self-employed without paid help (alone or in a partnership)?
- Self-employed with paid help (alone or in a partnership)?

## Variant for highly aggregated data

A variant of NOC 2011 has been developed jointly by Statistics Canada and Employment and Social Development Canada. It is based on a review of actual practices in the analysis of highly aggregated occupational data, consideration of the highest aggregation level in the International Standard Classification of Occupations (ISCO) and consultation with potential users.

The variant consists of 10 groupings, from a. to j., that are a convenient and useful way to summarize and analyse more detailed classes. The first three classes are homogeneous on skill level. The remaining classes focus on skill type. All classes consist of entire major groups; no major group is split between classes of the variant.

### Variant aggregation structure

| **Variant classes** | **Major groups included** |
|---|---|
| a) Management | **00** Senior management occupations<br>**01-05** Specialized middle managers occupations<br>**06** Middle management occupations in retail and wholesale trade and customer services<br>**07-09** Middle management occupations in trades, transportation, production and utilities |
| b) Professional | **11** Professional occupations in business and finance<br>**21** Professional occupations in natural and applied sciences<br>**30** Professional occupations in nursing<br>**31** Professional occupations in health (except nursing)<br>**40** Professional occupations in education services<br>**41** Professional occupations in Law and Social, Community and Government Services<br>**51** Professional Occupations in Art and Culture |
| c) Technical and paraprofessional | **22** Technical Occupations Related to natural and applied sciences<br>**32** Technical occupations in health<br>**42** Paraprofessional occupations in legal, social, community and education services<br>**43** Occupations in front-line public protection services<br>**52** Technical occupations in art, culture, recreation and sport |
| d) Administration and administrative support | **12** Administrative and financial supervisors and administrative occupations<br>**13** Finance, insurance and related business administrative occupations<br>**14** Office support occupations<br>**15** Distribution, tracking and scheduling co-ordination occupations |
| e) Sales | **62** Retail sales supervisors and specialized sales occupations<br>**64** Sales representatives and salespersons – wholesale and retail trade<br>**66** Sales support occupations |
| f) Personal and customer information services | **63** Service supervisors and technical service occupations<br>**65** Service representatives and other customer and personal services occupations<br>**67** Service support and other service occupations, n.e.c.<br>**34** Assisting occupations in support of health services<br>**44** Care providers and educational, legal and public protection support occupations |
| g) Industrial, construction and equipment operation trades | **72** Industrial, electrical and construction trades<br>**73** Maintenance and equipment operation trades |
| h) Workers and labourers in transport and construction | **74** Other installers, repairers and servicers and material handlers<br>**75** Transport and heavy equipment operation and related maintenance occupations<br>**76** Trades helpers, construction labourers and related occupations |
| i) Natural resources, agriculture and related production occupations | **82** Supervisors and technical occupations in natural resources, agricultural and related production<br>**84** Workers in natural resources, agriculture and related production<br>**86** Harvesting, landscaping and natural resources labourers |
| j) Occupations in manufacturing and utilities | **92** Processing, manufacturing and utilities supervisors and central control operators<br>**94** Processing and manufacturing machine operators and related production workers<br>**95** Assemblers in Manufacturing<br>**96** Labourers in Processing, Manufacturing and Utilities |

## More information on the NOC 2016 Version 1.1

For information on the National Occupational Classification (NOC) and its use for programs and services such as, immigrating to Canada, labour market information, job searches and working in Canada, please contact Employment and Social Development Canada (ESDC) (NC-NOC-CNP-GD@hrsdc-rhdcc.gc.ca).

## Classification structure

**0 Management Occupations**

  **00 Senior Management Occupations**

    **001 Legislators and Senior Management**

      0011 Legislators

      0012 Senior Government Managers and Officials

      0013 Senior Managers - Financial, Communications and Other Business Services

      0014 Senior Managers - Health, Education, Social and Community Services and Membership Organizations

      0015 Senior Managers - Trade, Broadcasting and Other Services, n.e.c.

      0016 Senior Managers - Construction, Transportation, Production and Utilities

  **01 Specialized Middle Management Occupations**

    **011 Administrative Services Managers**

      0111 Financial Managers

      0112 Human Resources Managers

      0113 Purchasing Managers

      0114 Other Administrative Services Managers

    **012 Managers in Financial and Business Services**

      0121 Insurance, Real Estate and Financial Brokerage Managers

      0122 Banking, Credit and Other Investment Managers

      0124 Advertising, Marketing and Public Relations Managers

      0125 Other Business Services Managers

    **013 Managers in Communication (Except Broadcasting)**

      0131 Telecommunication Carriers Managers

      0132 Postal and Courier Services Managers

  **02 Specialized Middle Management Occupations**

    **021 Managers in Engineering, Architecture, Science and Information Systems**

      0211 Engineering Managers

      0212 Architecture and Science Managers

      0213 Computer and Information Systems Managers

  **03 Specialized Middle Management Occupations**

    **031 Managers in Health Care**

      0311 Managers in Health Care

  **04 Specialized Middle Management Occupations**

    **041 Managers in Public Administration**

      0411 Government Managers - Health and Social Policy Development and Program Administration

      0412 Government Managers - Economic Analysis, Policy Development and Program Administration

      0413 Government Managers - Education Policy Development and Program Administration

      0414 Other Managers in Public Administration

- **042 Managers in Education, Social and Community Services**
  - 0421 Administrators - Post-Secondary Education and Vocational Training
  - 0422 School Principals and Administrators of Elementary and Secondary Education
  - 0423 Managers in Social, Community and Correctional Services
- **043 Managers in Public Protection Services**
  - 0431 Commissioned Police Officers
  - 0432 Fire Chiefs and Senior Firefighting Officers
  - 0433 Commissioned Officers of the Canadian Forces

- **05 Specialized Middle Management Occupations**
  - **051 Managers in Art, Culture, Recreation and Sport**
    - 0511 Library, Archive, Museum and Art Gallery Managers
    - 0512 Managers - Publishing, Motion Pictures, Broadcasting and Performing Arts
    - 0513 Recreation, Sports and Fitness Program and Service Directors
- **06 Middle Management Occupations in Wholesale and Retail Trade and Customer Services**
  - **060 Corporate Sales Managers**
    - 0601 Corporate Sales Managers
  - **062 Retail and Wholesale Trade Managers**
    - 0621 Retail and Wholesale Trade Managers
  - **063 Managers in Food Service and Accommodation**
    - 0631 Restaurant and Food Service Managers
    - 0632 Accommodation Service Managers
  - **065 Managers in Customer and Personal Services, n.e.c.**
    - 0651 Managers in Customer and Personal Services, n.e.c.
- **07 Middle Management Occupations in Trades, Transportation, Production and Utilities**
  - **071 Managers in Construction and Facility Operation and Maintenance**
    - 0711 Construction Managers
    - 0712 Home Building and Renovation Managers
    - 0714 Facility Operation and Maintenance Managers
  - **073 Managers in Transportation**
    - 0731 Managers in Transportation
- **08 Middle Management Occupations in Trades, Transportation, Production and Utilities**
  - **081 Managers in Natural Resources Production and Fishing**
    - 0811 Managers in Natural Resources Production and Fishing
  - **082 Managers in Agriculture, Horticulture and Aquaculture**
    - 0821 Managers in Agriculture
    - 0822 Managers in Horticulture
    - 0823 Managers in Aquaculture
- **09 Middle Management Occupations in Trades, Transportation, Production and Utilities**
  - **091 Managers in Manufacturing and Utilities**
    - 0911 Manufacturing Managers
    - 0912 Utilities Managers

# 1 Business, Finance and Administration Occupations

## 11 Professional Occupations in Business and Finance

### 111 Auditors, Accountants and Investment Professionals

1111 Financial Auditors and Accountants
1112 Financial and Investment Analysts
1113 Securities Agents, Investment Dealers and Brokers
1114 Other Financial Officers

### 112 Human Resources and Business Service Professionals

1121 Human Resources Professionals
1122 Professional Occupations in Business Management Consulting
1123 Professional Occupations in Advertising, Marketing and Public Relations

## 12 Administrative and Financial Supervisors and Administrative Occupations

### 121 Administrative Services Supervisors

1211 Supervisors, General Office and Administrative Support Workers
1212 Supervisors, Finance and Insurance Office Workers
1213 Supervisors, Library, Correspondence and Related Information Workers
1214 Supervisors, Mail and Message Distribution Occupations
1215 Supervisors, Supply Chain, Tracking and Scheduling Co-ordination Occupations

### 122 Administrative and Regulatory Occupations

1221 Administrative Officers
1222 Executive Assistants
1223 Human Resources and Recruitment Officers
1224 Property Administrators
1225 Purchasing Agents and Officers
1226 Conference and Event Planners
1227 Court Officers and Justices of the Peace
1228 Employment Insurance, Immigration, Border Services and Revenue Officers

### 124 Administrative Assistants

1241 Administrative Assistants
1242 Legal Administrative Assistants
1243 Medical Administrative Assistants

### 125 Court Reporters, Transcriptionists, Records Management Technicians and Statistical Officers

1251 Court Reporters, Medical Transcriptionists and Related Occupations
1252 Health Information Management Occupations
1253 Records Management Technicians
1254 Statistical Officers and Related Research Support Occupations

## 13 Finance, Insurance and Related Business Administrative Occupations

### 131 Finance, Insurance and Related Business Administrative Occupations

1311 Accounting Technicians and Bookkeepers
1312 Insurance Adjusters and Claims Examiners
1313 Insurance Underwriters
1314 Assessors, Valuators and Appraisers
1315 Customs and Other Shipping Brokers and Related Logistics Occupations

- **14 Office Support Occupations**
  - **141 General Office Workers**
    - 1411 General Office Support Workers
    - 1414 Receptionists
    - 1415 Personnel Clerks
    - 1416 Court Clerks
  - **142 Office Equipment Operators**
    - 1422 Data Entry Clerks
    - 1423 Desktop Publishing Operators and Related Occupations
  - **143 Financial, Insurance and Related Adminstrative Support Workers**
    - 1431 Accounting and Related Clerks
    - 1432 Payroll Clerks
    - 1434 Banking, Insurance and Other Financial Clerks
    - 1435 Collectors
  - **145 Library, Correspondence and Other Clerks, n.e.c.**
    - 1451 Library Assistants and Clerks
    - 1452 Correspondence, Publication and Regulatory Clerks
    - 1454 Survey Interviewers and Statistical Clerks
- **15 Distribution, Tracking and Scheduling Co-ordination Occupations**
  - **151 Mail and Message Distribution Occupations**
    - 1511 Mail, Postal and Related Workers
    - 1512 Letter Carriers
    - 1513 Couriers, Messengers and Door-to-Door Distributors
  - **152 Supply Chain Logistics, Tracking and Scheduling Co-ordination Occupations**
    - 1521 Shippers and Receivers
    - 1522 Storekeepers and Partspersons
    - 1523 Production Logistics Co-ordinators
    - 1524 Purchasing and Inventory Control Workers
    - 1525 Dispatchers
    - 1526 Transportation Route and Crew Schedulers

**2 Natural and Applied Sciences and Related Occupations**

- **21 Professional Occupations in Natural and Applied Sciences**
  - **211 Physical Science Professionals**
    - 2111 Physicists and Astronomers
    - 2112 Chemists
    - 2113 Geoscientists and Oceanographers
    - 2114 Meteorologists and Climatologists
    - 2115 Other Professional Occupations in Physical Sciences
  - **212 Life Science Professionals**
    - 2121 Biologists and Related Scientists
    - 2122 Forestry Professionals
    - 2123 Agricultural Representatives, Consultants and Specialists

**213 Civil, Mechanical, Electrical and Chemical Engineers**
  2131 Civil Engineers
  2132 Mechanical Engineers
  2133 Electrical and Electronics Engineers
  2134 Chemical Engineers
**214 Other Engineers**
  2141 Industrial and Manufacturing Engineers
  2142 Metallurgical and Materials Engineers
  2143 Mining Engineers
  2144 Geological Engineers
  2145 Petroleum Engineers
  2146 Aerospace Engineers
  2147 Computer Engineers (Except Software Engineers and Designers)
  2148 Other Professional Engineers, n.e.c.
**215 Architects, Urban Planners and Land Surveyors**
  2151 Architects
  2152 Landscape Architects
  2153 Urban and Land Use Planners
  2154 Land Surveyors
**216 Mathematicians, Statisticians and Actuaries**
  2161 Mathematicians, Statisticians and Actuaries
**217 Computer and Information Systems Professionals**
  2171 Information Systems Analysts and Consultants
  2172 Database Analysts and Data Administrators
  2173 Software Engineers and Designers
  2174 Computer Programmers and Interactive Media Developers
  2175 Web Designers and Developers
**22 Technical Occupations Related to Natural and Applied Sciences**
  **221 Technical Occupations in Physical Sciences**
    2211 Chemical Technologists and Technicians
    2212 Geological and Mineral Technologists and Technicians
  **222 Technical Occupations in Life Sciences**
    2221 Biological Technologists and Technicians
    2222 Agricultural and Fish Products Inspectors
    2223 Forestry Technologists and Technicians
    2224 Conservation and Fishery Officers
    2225 Landscape and Horticulture Technicians and Specialists
  **223 Technical Occupations in Civil, Mechanical and Industrial Engineering**
    2231 Civil Engineering Technologists and Technicians
    2232 Mechanical Engineering Technologists and Technicians
    2233 Industrial Engineering and Manufacturing Technologists and Technicians
    2234 Construction Estimators

**224 Technical Occupations in Electronics and Electrical Engineering**
- 2241 Electrical and Electronics Engineering Technologists and Technicians
- 2242 Electronic Service Technicians (Household and Business Equipment)
- 2243 Industrial Instrument Technicians and Mechanics
- 2244 Aircraft Instrument, Electrical and Avionics Mechanics, Technicians and Inspectors

**225 Technical Occupations in Architecture, Drafting, Surveying, Geomatics and Meteorology**
- 2251 Architectural Technologists and Technicians
- 2252 Industrial Designers
- 2253 Drafting Technologists and Technicians
- 2254 Land Survey Technologists and Technicians
- 2255 Technical Occupations in Geomatics and Meteorology

**226 Other Technical Inspectors and Regulatory Officers**
- 2261 Non-Destructive Testers and Inspection Technicians
- 2262 Engineering Inspectors and Regulatory Officers
- 2263 Inspectors in Public and Environmental Health and Occupational Health and Safety
- 2264 Construction Inspectors

**227 Transportation Officers and Controllers**
- 2271 Air Pilots, Flight Engineers and Flying Instructors
- 2272 Air Traffic Controllers and Related Occupations
- 2273 Deck Officers, Water Transport
- 2274 Engineer Officers, Water Transport
- 2275 Railway Traffic Controllers and Marine Traffic Regulators

**228 Technical Occupations in Computer and Information Systems**
- 2281 Computer Network Technicians
- 2282 User Support Technicians
- 2283 Systems Testing Technicians

## 3 Health Occupations

### 30 Professional Occupations in Nursing

**301 Professional Occupations in Nursing**
- 3011 Nursing Co-ordinators and Supervisors
- 3012 Registered Nurses and Registered Psychiatric Nurses

### 31 Professional Occupations in Health (Except Nursing)

**311 Physicians, Dentists and Veterinarians**
- 3111 Specialist Physicians
- 3112 General Practitioners and Family Physicians
- 3113 Dentists
- 3114 Veterinarians

**312 Optometrists, Chiropractors and Other Health Diagnosing and Treating Professionals, n.e.c.**
- 3121 Optometrists
- 3122 Chiropractors
- 3124 Allied Primary Health Practitioners
- 3125 Other Professional Occupations in Health Diagnosing and Treating

**313 Pharmacists, Dietitians and Nutritionists**
  3131 Pharmacists
  3132 Dietitians and Nutritionists
**314 Therapy and Assessment Professionals**
  3141 Audiologists and Speech-Language Pathologists
  3142 Physiotherapists
  3143 Occupational Therapists
  3144 Other Professional Occupations in Therapy and Assessment
**32 Technical Occupations in Health**
**321 Medical Technologists and Technicians (Except Dental Health)**
  3211 Medical Laboratory Technologists
  3212 Medical Laboratory Technicians and Pathologists' Assistants
  3213 Veterinary and Animal Health Technologists and Technicians
  3214 Respiratory Therapists, Clinical Perfusionists and Cardiopulmonary Technologists
  3215 Medical Radiation Technologists
  3216 Medical Sonographers
  3217 Cardiology Technologists and Electrophysiological Diagnostic Technologists n.e.c.
  3219 Other Medical Technologists and Technicians (Except Dental Health)
**322 Technical Occupations in Dental Health Care**
  3221 Denturists
  3222 Dental Hygienists and Dental Therapists
  3223 Dental Technologists, Technicians and Laboratory Assistants
**323 Other Technical Occupations in Health Care**
  3231 Opticians
  3232 Practitioners of Natural Healing
  3233 Licensed Practical Nurses
  3234 Paramedical Occupations
  3236 Massage Therapists
  3237 Other Technical Occupations in Therapy and Assessment
**34 Assisting Occupations in Support of Health Services**
**341 Assisting Occupations in Support of Health Services**
  3411 Dental Assistants
  3413 Nurse Aides, Orderlies and Patient Service Associates
  3414 Other Assisting Occupations in Support of Health Services

## 4 Occupations in Education, Law and Social, Community and Government Services

**40 Professional Occupations in Education Services**
**401 University Professors and Post-Secondary Assistants**
  4011 University Professors and Lecturers
  4012 Post-Secondary Teaching and Research Assistants
**402 College and Other Vocational Instructors**
  4021 College and Other Vocational Instructors

- **403 Secondary and Elementary School Teachers and Educational Counsellors**
  - 4031 Secondary School Teachers
  - 4032 Elementary School and Kindergarten Teachers
  - 4033 Educational Counsellors
- **41 Professional Occupations in Law and Social, Community and Government Services**
  - **411 Judges, Lawyers and Quebec Notaries**
    - 4111 Judges
    - 4112 Lawyers and Quebec Notaries
  - **415 Social and Community Service Professionals**
    - 4151 Psychologists
    - 4152 Social Workers
    - 4153 Family, Marriage and Other Related Counsellors
    - 4154 Professional Occupations in Religion
    - 4155 Probation and Parole Officers and Related Occupations
    - 4156 Employment Counsellors
  - **416 Policy and Program Researchers, Consultants and Officers**
    - 4161 Natural and Applied Science Policy Researchers, Consultants and Program Officers
    - 4162 Economists and Economic Policy Researchers and Analysts
    - 4163 Business Development Officers and Marketing Researchers and Consultants
    - 4164 Social Policy Researchers, Consultants and Program Officers
    - 4165 Health Policy Researchers, Consultants and Program Officers
    - 4166 Education Policy Researchers, Consultants and Program Officers
    - 4167 Recreation, Sports and Fitness Policy Researchers, Consultants and Program Officers
    - 4168 Program Officers Unique to Government
    - 4169 Other Professional Occupations in Social Science, n.e.c.
- **42 Paraprofessional Occupations in Legal, Social, Community and Education Services**
  - **421 Paraprofessional Occupations in Legal, Social, Community and Education Services**
    - 4211 Paralegal and Related Occupations
    - 4212 Social and Community Service Workers
    - 4214 Early Childhood Educators and Assistants
    - 4215 Instructors of Persons with Disabilities
    - 4216 Other Instructors
    - 4217 Other Religious Occupations
- **43 Occupations in Front-Line Public Protection Services**
  - **431 Occupations in Front-Line Public Protection Services**
    - 4311 Police Officers (Except Commissioned)
    - 4312 Firefighters
    - 4313 Non-Commissioned Ranks of the Canadian Forces
- **44 Care Providers and Educational, Legal and Public Protection Support Occupations**
  - **441 Home Care Providers and Educational Support Occupations**
    - 4411 Home Child Care Providers
    - 4412 Home Support Workers, Housekeepers and Related Occupations
    - 4413 Elementary and Secondary School Teacher Assistants

**442 Legal and Public Protection Support Occupations**

- 4421 Sheriffs and Bailiffs
- 4422 Correctional Service Officers
- 4423 By-Law Enforcement and Other Regulatory Officers, n.e.c.

## 5 Occupations in Art, Culture, Recreation and Sport

### 51 Professional Occupations in Art and Culture

**511 Librarians, Archivists, Conservators and Curators**

- 5111 Librarians
- 5112 Conservators and Curators
- 5113 Archivists

**512 Writing, Translating and Related Communications Professionals**

- 5121 Authors and Writers
- 5122 Editors
- 5123 Journalists
- 5125 Translators, Terminologists and Interpreters

**513 Creative and Performing Artists**

- 5131 Producers, Directors, Choreographers and Related Occupations
- 5132 Conductors, Composers and Arrangers
- 5133 Musicians and Singers
- 5134 Dancers
- 5135 Actors and Comedians
- 5136 Painters, Sculptors and Other Visual Artists

### 52 Technical Occupations in Art, Culture, Recreation and Sport

**521 Technical Occupations in Libraries, Public Archives, Museums and Art Galleries**

- 5211 Library and Public Archive Technicians
- 5212 Technical Occupations Related to Museums and Art Galleries

**522 Photographers, Graphic Arts Technicians and Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts**

- 5221 Photographers
- 5222 Film and Video Camera Operators
- 5223 Graphic Arts Technicians
- 5224 Broadcast Technicians
- 5225 Audio and Video Recording Technicians
- 5226 Other Technical and Co-ordinating Occupations in Motion Pictures, Broadcasting and the Performing Arts
- 5227 Support Occupations in Motion Pictures, Broadcasting, Photography and the Performing Arts

**523 Announcers and Other Performers, n.e.c.**

- 5231 Announcers and Other Broadcasters
- 5232 Other Performers

**524 Creative Designers and Craftspersons**

- 5241 Graphic Designers and Illustrators
- 5242 Interior Designers and Decorators
- 5243 Theatre, Fashion, Exhibit and Other Creative Designers
- 5244 Artisans and Craftspersons
- 5245 Patternmakers - Textile, Leather and Fur Products

**525 Athletes, Coaches, Referees and Related Occupations**

5251 Athletes

5252 Coaches

5253 Sports Officials and Referees

5254 Program Leaders and Instructors in Recreation, Sport and Fitness

## 6 Sales and Service Occupations

### 62 Retail Sales Supervisors and Specialized Sales Occupations

**621 Retail Sales Supervisors**

6211 Retail Sales Supervisors

**622 Technical Sales Specialists in Wholesale Trade and Retail and Wholesale Buyers**

6221 Technical Sales Specialists - Wholesale Trade

6222 Retail and Wholesale Buyers

**623 Insurance, Real Estate and Financial Sales Occupations**

6231 Insurance Agents and Brokers

6232 Real Estate Agents and Salespersons

6235 Financial Services Representatives

### 63 Service Supervisors and Specialized Service Occupations

**631 Service Supervisors**

6311 Food Service Supervisors

6312 Executive Housekeepers

6313 Accomodation, Travel, Tourism and Related Services Supervisors

6314 Customer and Information Services Supervisors

6315 Cleaning Supervisors

6316 Other Services Supervisors

**632 Chefs and Cooks**

6321 Chefs

6322 Cooks

**633 Butchers and Bakers**

6331 Butchers, Meat Cutters and Fishmongers - Retail and Wholesale

6332 Bakers

**634 Specialized Occupations in Customer and Personal Services**

6341 Hairstylists and Barbers

6342 Tailors, Dressmakers, Furriers and Milliners

6343 Shoe Repairers and Shoemakers

6344 Jewellers, Jewellery and Watch Repairers and Related Occupations

6345 Upholsterers

6346 Funeral Directors and Embalmers

### 64 Sales Representatives and Salespersons - Wholesale and Retail Trade

**641 Sales and Account Representatives - Wholesale Trade (Non-Technical)**

6411 Sales and Account Representatives - Wholesale Trade (Non-Technical)

**642 Retail Salespersons**

6421 Retail Salespersons

**65 Service Representatives and Other Customer and Personal Services Occupations**
  **651 Occupations in Food and Beverage Service**
    6511 Maîtres d'hôtel and Hosts/Hostesses
    6512 Bartenders
    6513 Food and Beverage Servers
  **652 Occupations in Travel and Accomodation**
    6521 Travel Counsellors
    6522 Pursers, Flight Attendants and Related Travel Attendants
    6523 Airline Ticket and Service Agents
    6524 Ground and Water Transport Ticket Agents, Cargo Service Representatives and Related Clerks
    6525 Hotel Front Desk Clerks
  **653 Tourism and Amusement Services Occupations**
    6531 Tour and Travel Guides
    6532 Outdoor Sport and Recreational Guides
    6533 Casino Occupations
  **654 Security Guards and Related Security Service Occupations**
    6541 Security Guards and Related Security Service Occupations
  **655 Customer and Information Services Representatives**
    6551 Customer Service Representatives - Financial Institutions
    6552 Other Customer and Information Services Representatives
  **656 Other Occupations in Personal Service**
    6561 Image, Social and Other Personal Consultants
    6562 Estheticians, Electrologists and Related Occupations
    6563 Pet Groomers and Animal Care Workers
    6564 Other Personal Service Occupations
**66 Sales Support Occupations**
  **661 Cashiers**
    6611 Cashiers
  **662 Other Sales Support and Related Occupations**
    6621 Service Station Attendants
    6622 Store Shelf Stockers, Clerks and Order Fillers
    6623 Other Sales Related Occupations
**67 Service Support and Other Service Occupations, n.e.c.**
  **671 Food Counter Attendants, Kitchen Helpers and Related Support Occupations**
    6711 Food Counter Attendants, Kitchen Helpers and Related Support Occupations
  **672 Support Occupations in Accomodation, Travel and Amusement Services**
    6721 Support Occupations in Accommodation, Travel and Facilities Set-Up Services
    6722 Operators and Attendants in Amusement, Recreation and Sport
  **673 Cleaners**
    6731 Light Duty Cleaners
    6732 Specialized Cleaners
    6733 Janitors, Caretakers and Building Superintendents

- **674 Other Service Support and Related Occupations, n.e.c.**
  - 6741 Dry Cleaning, Laundry and Related Occupations
  - 6742 Other Service Support Occupations, n.e.c.

**7 Trades, Transport and Equipment Operators and Related Occupations**

- **72 Industrial, Electrical and Construction Trades**
  - **720 Contractors and Supervisors, Industrial, Electrical and Construction Trades and Related Workers**
    - 7201 Supervisors, Machining, Metal Forming, Shaping and Erecting Trades and Related Occupations
    - 7202 Contractors and Supervisors, Electrical Trades and Telecommunications Occupations
    - 7203 Contractors and Supervisors, Pipefitting Trades
    - 7204 Contractors and Supervisors, Carpentry Trades
    - 7205 Contractors and Supervisors, Other Construction Trades, Installers, Repairers and Servicers
  - **723 Machining, Metal Forming, Shaping and Erecting Trades**
    - 7231 Machinists and Machining and Tooling Inspectors
    - 7232 Tool and Die Makers
    - 7233 Sheet Metal Workers
    - 7234 Boilermakers
    - 7235 Structural Metal and Platework Fabricators and Fitters
    - 7236 Ironworkers
    - 7237 Welders and Related Machine Operators
  - **724 Electrical Trades and Telecommunication Occupations**
    - 7241 Electricians (Except Industrial and Power System)
    - 7242 Industrial Electricians
    - 7243 Power System Electricians
    - 7244 Electrical Power Line and Cable Workers
    - 7245 Telecommunications Line and Cable Workers
    - 7246 Telecommunications Installation and Repair Workers
    - 7247 Cable Television Service and Maintenance Technicians
  - **725 Plumbers, Pipefitters and Gas Fitters**
    - 7251 Plumbers
    - 7252 Steamfitters, Pipefitters and Sprinkler System Installers
    - 7253 Gas Fitters
  - **727 Carpenters and Cabinetmakers**
    - 7271 Carpenters
    - 7272 Cabinetmakers
  - **728 Masonry and Plastering Trades**
    - 7281 Bricklayers
    - 7282 Concrete Finishers
    - 7283 Tilesetters
    - 7284 Plasterers, Drywall Installers and Finishers and Lathers
  - **729 Other Construction Trades**
    - 7291 Roofers and Shinglers
    - 7292 Glaziers
    - 7293 Insulators

7294 Painters and Decorators
7295 Floor Covering Installers
**73 Maintenance and Equipment Operation Trades**
**730 Contractors and Supervisors, Maintenance Trades and Heavy Equipment and Transport Operators**
7301 Contractors and Supervisors, Mechanic Trades
7302 Contractors and Supervisors, Heavy Equipment Operator Crews
7303 Supervisors, Printing and Related Occupations
7304 Supervisors, Railway Transport Operations
7305 Supervisors, Motor Transport and Other Ground Transit Operators
**731 Machinery and Transportation Equipment Mechanics (Except Motor Vehicle)**
7311 Construction Millwrights and Industrial Mechanics
7312 Heavy-Duty Equipment Mechanics
7313 Refrigeration and Air Conditioning Mechanics
7314 Railway Carmen/women
7315 Aircraft Mechanics and Aircraft Inspectors
7316 Machine Fitters
7318 Elevator Constructors and Mechanics
**732 Automotive Service Technicians**
7321 Automotive Service Technicians, Truck and Bus Mechanics and Mechanical Repairers
7322 Motor Vehicle Body Repairers
**733 Other Mechanics and Related Repairers**
7331 Oil and Solid Fuel Heating Mechanics
7332 Appliance Servicers and Repairers
7333 Electrical Mechanics
7334 Motorcycle, All-Terrain Vehicle and Other Related Mechanics
7335 Other Small Engine and Small Equipment Repairers
**736 Train Crew Operating Occupations**
7361 Railway and Yard Locomotive Engineers
7362 Railway Conductors and Brakemen/women
**737 Crane Operators, Drillers and Blasters**
7371 Crane Operators
7372 Drillers and Blasters - Surface Mining, Quarrying and Construction
7373 Water Well Drillers
**738 Printing Press Operators and Other Trades and Related Occupations, n.e.c.**
7381 Printing Press Operators
7384 Other Trades and Related Occupations, n.e.c.
**74 Other Installers, Repairers and Servicers and Material Handlers**
**744 Other Installers, Repairers and Servicers**
7441 Residential and Commercial Installers and Servicers
7442 Waterworks and Gas Maintenance Workers
7444 Pest Controllers and Fumigators
7445 Other Repairers and Servicers

**745 Longshore Workers and Material Handlers**
- 7451 Longshore Workers
- 7452 Material Handlers

**75 Transport and Heavy Equipment Operation and Related Maintenance Occupations**

**751 Motor Vehicle and Transit Drivers**
- 7511 Transport Truck Drivers
- 7512 Bus Drivers, Subway Operators and Other Transit Operators
- 7513 Taxi and Limousine Drivers and Chauffeurs
- 7514 Delivery and Courier Service Drivers

**752 Heavy Equipment Operators**
- 7521 Heavy Equipment Operators (Except Crane)
- 7522 Public Works Maintenance Equipment Operators and Related Workers

**753 Other Transport Equipment Operators and Related Maintenance Workers**
- 7531 Railway Yard and Track Maintenance Workers
- 7532 Water Transport Deck and Engine Room Crew
- 7533 Boat and Cable Ferry Operators and Related Occupations
- 7534 Air Transport Ramp Attendants
- 7535 Other Automotive Mechanical Installers and Servicers

**76 Trades Helpers, Construction Labourers and Related Occupations**

**761 Trades Helpers and Labourers**
- 7611 Construction Trades Helpers and Labourers
- 7612 Other Trades Helpers and Labourers

**762 Public Works and Other Labourers, n.e.c.**
- 7621 Public Works and Maintenance Labourers
- 7622 Railway and Motor Transport Labourers

## 8 Natural Resources, Agriculture and Related Production Occupations

**82 Supervisors and Technical Occupations in Natural Resources, Agriculture and Related Production**

**821 Supervisors, Logging and Forestry**
- 8211 Supervisors, Logging and Forestry

**822 Contractors and Supervisors, Mining, Oil and Gas**
- 8221 Supervisors, Mining and Quarrying
- 8222 Contractors and Supervisors, Oil and Gas Drilling and Services

**823 Underground Miners, Oil and Gas Drillers and Related Occupations**
- 8231 Underground Production and Development Miners
- 8232 Oil and Gas Well Drillers, Servicers, Testers and Related Workers

**824 Logging Machinery Operators**
- 8241 Logging Machinery Operators

**825 Contractors and Supervisors, Agriculture, Horticulture and Related Operations and Services**
- 8252 Agricultural Service Contractors, Farm Supervisors and Specialized Livestock Workers
- 8255 Contractors and Supervisors, Landscaping, Grounds Maintenance and Horticulture Services

**826 Fishing Vessel Masters and Fishermen/women**
- 8261 Fishing Masters and Officers
- 8262 Fishermen/women

- **84 Workers in Natural Resources, Agriculture and Related Production**
  - **841 Mine Service Workers and Operators in Oil and Gas Drilling**
    - 8411 Underground Mine Service and Support Workers
    - 8412 Oil and Gas Well Drilling and Related Workers and Services Operators
  - **842 Logging and Forestry Workers**
    - 8421 Chain Saw and Skidder Operators
    - 8422 Silviculture and Forestry Workers
  - **843 Agriculture and Horticulture Workers**
    - 8431 General Farm Workers
    - 8432 Nursery and Greenhouse Workers
  - **844 Other Fishing and Trapping Occupations**
    - 8441 Fishing Vessel Deckhands
    - 8442 Trappers and Hunters
- **86 Harvesting, Landscaping and Natural Resources Labourers**
  - **861 Harvesting, Landscaping and Natural Resources Labourers**
    - 8611 Harvesting Labourers
    - 8612 Landscaping and Grounds Maintenance Labourers
    - 8613 Aquaculture and Marine Harvest Labourers
    - 8614 Mine Labourers
    - 8615 Oil and Gas Drilling, Servicing and Related Labourers
    - 8616 Logging and Forestry Labourers

**9 Occupations in Manufacturing and Utilities**

- **92 Processing, Manufacturing and Utilities Supervisors and Central Control Operators**
  - **921 Supervisors, Processing and Manufacturing Occupations**
    - 9211 Supervisors, Mineral and Metal Processing
    - 9212 Supervisors, Petroleum, Gas and Chemical Processing and Utilities
    - 9213 Supervisors, Food, Beverage and Associated Products Processing
    - 9214 Supervisors, Plastic and Rubber Products Manufacturing
    - 9215 Supervisors, Forest Products Processing
    - 9217 Supervisors, Textile, Fabric, Fur and Leather Products Processing and Manufacturing
  - **922 Supervisors, Assembly and Fabrication**
    - 9221 Supervisors, Motor Vehicle Assembling
    - 9222 Supervisors, Electronics Manufacturing
    - 9223 Supervisors, Electrical Products Manufacturing
    - 9224 Supervisors, Furniture and Fixtures Manufacturing
    - 9226 Supervisors, Other Mechanical and Metal Products Manufacturing
    - 9227 Supervisors, Other Products Manufacturing and Assembly
  - **923 Central Control and Process Operators in Processing and Manufacturing**
    - 9231 Central Control and Process Operators, Mineral and Metal Processing
    - 9232 Petroleum, Gas and Chemical Process Operators
    - 9235 Pulping, Papermaking and Coating Control Operators

- **924 Utilities Equipment Operators and Controllers**
  - 9241 Power Engineers and Power Systems Operators
  - 9243 Water and Waste Treatment Plant Operators

**94 Processing and Manufacturing Machine Operators and Related Production Workers**

- **941 Machine Operators and Related Workers in Mineral and Metal Products Processing and Manufacturing**
  - 9411 Machine Operators, Mineral and Metal Processing
  - 9412 Foundry Workers
  - 9413 Glass Forming and Finishing Machine Operators and Glass Cutters
  - 9414 Concrete, Clay and Stone Forming Operators
  - 9415 Inspectors and Testers, Mineral and Metal Processing
  - 9416 Metalworking and Forging Machine Operators
  - 9417 Machining Tool Operators
  - 9418 Other Metal Products Machine Operators
- **942 Machine Operators and Related Workers in Chemical, Plastic and Rubber Processing**
  - 9421 Chemical Plant Machine Operators
  - 9422 Plastics Processing Machine Operators
  - 9423 Rubber Processing Machine Operators and Related Workers
- **943 Machine Operators and Related Workers in Pulp and Paper Production and Wood Processing and Manufacturing**
  - 9431 Sawmill Machine Operators
  - 9432 Pulp Mill Machine Operators
  - 9433 Papermaking and Finishing Machine Operators
  - 9434 Other Wood Processing Machine Operators
  - 9435 Paper Converting Machine Operators
  - 9436 Lumber Graders and Other Wood Processing Inspectors and Graders
  - 9437 Woodworking Machine Operators
- **944 Machine Operators and Related Workers in Textile, Fabric, Fur and Leather Products Processing and Manufacturing**
  - 9441 Textile Fibre and Yarn, Hide and Pelt Processing Machine Operators and Workers
  - 9442 Weavers, Knitters and Other Fabric Making Occupations
  - 9445 Fabric, Fur and Leather Cutters
  - 9446 Sewing Machine Operators
  - 9447 Inspectors and Testers, Textile, Fabric, Fur and Leather Products Manufacturing
- **946 Machine Operators and Related Workers in Food, Beverage and Associated Products Processing**
  - 9461 Process Control and Machine Operators, Food, Beverage and Associated Products Processing
  - 9462 Industrial Butchers and Meat Cutters, Poultry Preparers and Related Workers
  - 9463 Fish and Seafood Plant Workers
  - 9465 Testers and Graders, Food, Beverage and Associated Products Processing
- **947 Printing Equipment Operators and Related Occupations**
  - 9471 Plateless Printing Equipment Operators
  - 9472 Camera, Platemaking and Other Prepress Occupations
  - 9473 Binding and Finishing Machine Operators
  - 9474 Photographic and Film Processors
- **949 Other Assembly and Related Occupations**
  - 9497 Plating, Metal Spraying and Related Operators

**95 Assemblers in Manufacturing**

**952 Mechanical, Electrical and Electronics Assemblers**

9521 Aircraft Assemblers and Aircraft Assembly Inspectors
9522 Motor Vehicle Assemblers, Inspectors and Testers
9523 Electronics Assemblers, Fabricators, Inspectors and Testers
9524 Assemblers and Inspectors, Electrical Appliance, Apparatus and Equipment Manufacturing
9525 Assemblers, Fabricators and Inspectors, Industrial Electrical Motors and Transformers
9526 Mechanical Assemblers and Inspectors
9527 Machine Operators and Inspectors, Electrical Apparatus Manufacturing

**953 Other Assembly and Related Occupations**

9531 Boat Assemblers and Inspectors
9532 Furniture and Fixture Assemblers and Inspectors
9533 Other Wood Products Assemblers and Inspectors
9534 Furniture Finishers and Refinishers
9535 Plastic Products Assemblers, Finishers and Inspectors
9536 Industrial Painters, Coaters and Metal Finishing Process Operators
9537 Other Products Assemblers, Finishers and Inspectors

**96 Labourers in Processing, Manufacturing and Utilities**

**961 Labourers in Processing, Manufacturing and Utilities**

9611 Labourers in Mineral and Metal Processing
9612 Labourers in Metal Fabrication
9613 Labourers in Chemical Products Processing and Utilities
9614 Labourers in Wood, Pulp and Paper Processing
9615 Labourers in Rubber and Plastic Products Manufacturing
9616 Labourers in Textile Processing
9617 Labourers in Food, Beverage and Associated Products Processing
9618 Labourers in Fish and Seafood Processing
9619 Other Labourers in Processing, Manufacturing and Utilities

# Classification Description

## 0 Management occupations

This category includes legislators, senior management occupations and middle management occupations. Senior managers are described in several broad categories. Middle managers are described in more detailed categories that span the entire labour market.

## 00 Senior management occupations

This major group comprises senior management occupations. It includes legislators and senior managers in the public and private sectors.

## 001 Legislators and senior management

This minor group includes legislators and senior management occupations in the public and private sectors. They are employed by federal, provincial, territorial and local government legislative bodies, executive councils, band councils and school boards; municipal and regional governments and provincial, territorial and federal departments, boards, agencies and commissions; and throughout the private sector.

## 0011 Legislators

Legislators participate in the activities of a federal, provincial, territorial or local government legislative body or executive council, band council or school board as elected or appointed members.

*Illustrative example(s)*

- cabinet minister
- city councillor
- First Nations band chief
- governor general
- lieutenant-governor
- mayor
- Member of Legislative Assembly (MLA)
- Member of Parliament (MP)
- Member of the National Assembly (MNA)
- Member of the Provincial Parliament (MPP)
- premier
- prime minister
- school board trustee
- senator

*Exclusion(s)*

- Commissioners - government services (see 0012 Senior government managers and officials)
- Elected or appointed officials of health care institutions, educational institutions, unions and voluntary organizations (see 0014 Senior managers - health, education, social and community services and membership organizations)

*Main duties*

Legislators perform some or all of the following duties:

- Enact, amend or repeal laws and regulations
- Participate in developing or amending government policies, programs or procedures
- Represent their government at local, national and international meetings and conferences
- Respond to matters of concern to constituents or the general public

- May serve as minister responsible for a government department or agency and direct senior government managers and officials in the implementation of government policy and the management of that department or agency.

*Employment requirements*

- Election to a legislative body, or appointment to positions such as senator, lieutenant-governor or governor general, is required.

## 0012 Senior government managers and officials

Senior government managers and officials plan, organize, direct, control and evaluate, through middle managers, the major activities of municipal or regional governments or of provincial, territorial or federal departments, boards, agencies or commissions. They establish the direction to be taken by these organizations in accordance with legislation and policies made by elected representatives or legislative bodies.

*Inclusion(s)*

- county clerk
- town clerk

*Illustrative example(s)*

- assistant deputy minister
- chief administrative officer - regional municipality
- chief statistician - government services
- city administrator
- deputy minister
- director general - government services
- executive director - government services
- high commissioner
- Human Rights Commission chairperson

*Exclusion(s)*

- Legislators (see 0011 Legislators)
- Middle managers in government (see 041 Managers in public administration)

*Main duties*

Senior government managers and officials perform some or all of the following duties:

- Establish objectives for the organization in accordance with government legislation and policy, formulate or approve and evaluate programs and procedures alone or in conjunction with senior government committees
- Advise elected representatives on policy questions and refer major policy matters to these representatives for final decision
- Recommend, review, evaluate and approve documents, briefs and reports submitted by middle managers and senior staff members
- Co-ordinate department activities with other senior government managers and officials
- Make presentations to legislative and other government committees regarding policies, programs or budgets
- Allocate human and financial resources to implement organizational policies and programs
- Establish financial and administrative controls.

*Employment requirements*

- A graduate degree in a related field may be required.
- A university degree or college diploma is usually required.
- Several years of managerial experience in the public or private sector are required.

*Additional information*

- There is mobility among senior management occupations.

## 0013 Senior managers - financial, communications and other business services

Senior managers in this unit group are usually appointed by a board of directors, to which they report. They work either alone or in conjunction with the board of directors to develop and establish objectives for the company, and to develop or approve policies and programs. They plan, organize, direct, control and evaluate, through middle managers, the operations of their organization in relation to established objectives. They work in establishments throughout the telecommunications, finance, insurance, real estate, and data processing, hosting and related services industries as well as other business service industries or they may own and operate their own business.

*Illustrative example(s)*

- advertising agency president
- bank president
- chief executive officer (CEO) - telephone company
- chief financial officer (CFO) - advertising agency
- chief operating officer - engineering firm
- computing services company president
- credit union executive director
- executive vice-president - real estate agency
- general manager - real estate management company
- human resources vice-president - bank
- marketing vice-president - clerical staff services
- president and chief executive officer - financial, communications and other business services
- trust company regional vice-president

*Exclusion(s)*

- Managers in communication (except broadcasting) (see 013 Managers in communication (except broadcasting))
- Managers in engineering, architecture, science and information systems (see 021 Managers in engineering, architecture, science and information systems)
- Managers in financial and business services (see 012 Managers in financial and business services)

*Main duties*

Senior managers in this unit group perform some or all of the following duties:

- Determine the company's mission and strategic direction as conveyed through policies and concrete objectives which are met through the effective management of human, financial and material resources
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement organizational policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall human resources planning
- Select middle managers, directors or other executive staff; delegate the necessary authority to them and create optimum working conditions
- Represent the organization, or delegate representatives to act on behalf of the organization, in negotiations or other official functions.
- Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in a particular service area.

*Employment requirements*

- A university degree in business administration, commerce, computer science or other discipline related to the service provided is usually required.
- Senior managers in finance usually require a professional accounting designation.
- Several years of experience as a middle manager in financial, communications or other business services are usually required.
- Specialization in a particular functional area or service is possible through specific university training in that area or through previous experience.

*Additional information*

- There is mobility among senior management occupations.

## 0014 Senior managers - health, education, social and community services and membership organizations

Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, membership and other organizations or institutions that deliver health, education, social or community services. They formulate policies which establish the direction to be taken by these organizations, either alone or in conjunction with a board of directors. They are employed in health care organizations, educational services, social and community services and membership organizations or they may own and operate their own business.

*Illustrative example(s)*

- arts and culture association chairperson
- automobile association executive director
- business association president
- educational institution chief financial officer (CFO)
- health services institution executive director
- labour organization president
- membership organization general manager
- music guild president
- professional association executive director
- scientific association chairperson
- social services institution corporate controller
- voluntary organization executive director

*Exclusion(s)*

- Administrators - post-secondary education and vocational training (see 0421 Administrators - post-secondary education and vocational training)
- Government managers - education policy development and program administration (see 0413 Government managers - education policy development and program administration)
- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)
- Managers in health care (see 0311 Managers in health care)
- Managers in social, community and correctional services (see 0423 Managers in social, community and correctional services)
- Other managers in public administration (see 0414 Other managers in public administration)
- School principals and administrators of elementary and secondary education (see 0422 School principals and administrators of elementary and secondary education)

*Main duties*

Senior managers in this unit group perform some or all of the following duties:

- Establish objectives for the organization or institution and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement organizational policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Co-ordinate the work of regions, divisions or departments
- Represent the organization, or delegate representatives to act on behalf of the organization, in negotiations or other official functions.
- Senior managers in this unit group may specialize in areas such as finance, marketing, human resources or in a particular service area.

*Employment requirements*

- A university degree or college diploma in business administration, hospital administration, finance or other discipline related to the service provided is usually required.
- Senior managers in finance usually require a professional accounting designation.
- Several years of experience as a middle manager in a related institution or organization are usually required.
- Specialization in a particular functional area or service is possible through specific university or college training in that area or through previous experience.

*Additional information*

- There is mobility among senior management occupations.

## 0015 Senior managers - trade, broadcasting and other services, n.e.c.

Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, trade, broadcasting and other service companies not elsewhere classified. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with a board of directors. They work in establishments in broadcasting and related media services, wholesale trade, retail trade, accommodation and food service, and other services not elsewhere classified or they may own and operate their own business.

*Illustrative example(s)*

- cleaning service general manager
- department store president
- engineering vice-president - television broadcasting services
- finance vice-president - food wholesaling
- hotel chain regional vice-president
- marketing vice-president - grocery store chain
- operations vice-president - radio broadcasting services
- professional sports club chief financial officer (CFO)
- restaurant chain corporate controller
- travel agency chief executive officer (CEO)

*Exclusion(s)*

- Managers in art, culture, recreation and sport (see 051 Managers in art, culture, recreation and sport)
- Managers in customer and personal services, n.e.c. (see 0651 Managers in customer and personal services, n.e.c.)
- Managers in food service and accommodation (see 063 Managers in food service and accommodation)
- Retail and wholesale trade managers (see 062 Retail and wholesale trade managers)

*Main duties*

Senior managers in this unit group perform some or all of the following duties:

- Establish objectives for the company and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement organizational policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Co-ordinate the work of regions, divisions or departments
- Represent the company, or delegate representatives to act on behalf of the company, in negotiations or other official functions.
- Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in the sale of a particular product or provision of a particular service.

*Employment requirements*

- A university degree or college diploma in business administration, finance or other discipline related to the service provided is usually required.

- Senior managers in finance usually require a professional accounting designation.
- Several years of experience as a middle manager in trade, broadcasting or other service are usually required.
- Specialization in a particular functional area or service is possible through specific university or college training in that area or through previous experience.

*Additional information*

- There is mobility among senior management occupations.

## 0016 Senior managers - construction, transportation, production and utilities

Senior managers in this unit group plan, organize, direct, control and evaluate, through middle managers, the overall operations of goods production, utility, transportation and construction companies. They formulate policies which establish the direction to be taken by these companies, either alone or in conjunction with other members of a board of directors. They work in establishments throughout the following industries: fishing, forestry, logging and agriculture; mining, oil and gas extraction; construction; transportation and warehousing; printing; manufacturing; and utilities or they may own and operate their own business.

*Illustrative example(s)*

- chief executive officer (CEO) - manufacturing company
- chief financial officer (CFO) - urban transit system
- executive vice-president - railway
- finance vice-president - mining company
- logging company corporate controller
- marketing vice-president - airline
- operations vice-president - electric power company
- petroleum production company regional vice-president
- publishing house general manager
- residential construction company president
- trucking company general manager

*Exclusion(s)*

- Managers in construction and facility operation and maintenance (see 071 Managers in construction and facility operation and maintenance)
- Managers in manufacturing and utilities (see 091 Managers in manufacturing and utilities)
- Managers in natural resources production and fishing (see 0811 Managers in natural resources production and fishing)

*Main duties*

Senior managers in this unit group perform some or all of the following duties:

- Establish objectives for the company and formulate or approve policies and programs
- Authorize and organize the establishment of major departments and associated senior staff positions
- Allocate material, human and financial resources to implement company policies and programs; establish financial and administrative controls; formulate and approve promotional campaigns; and approve overall personnel planning
- Select middle managers, directors or other executive staff
- Co-ordinate the work of regions, divisions or departments
- Represent the company, or delegate representatives to act on behalf of the company, in negotiations or other official functions.
- Senior managers in this unit group may specialize in areas such as finance, marketing or human resources or in a particular product area.

*Employment requirements*

- A university degree or college diploma in engineering, business administration, commerce or other discipline related to the company's product is usually required.
- Senior managers in finance usually require a professional accounting designation.

- Several years of experience as a middle manager in goods production, utilities, transportation or construction are usually required.
- Specialization in a particular functional area or product is possible through specific university or college training in that area or through previous experience.

*Additional information*

- There is mobility among senior management occupations.

## 01-05 Specialized middle management occupations

This major group comprises specialized middle management occupations. It includes administrative services managers and managers in financial and business services, communication (except broadcasting), engineering, architecture, science and information systems, health care, public administration, education, social and community services, public protection services, art, culture, recreation, and sport.

## 011 Administrative services managers

This minor group includes financial managers, human resources managers, purchasing managers and other administrative service managers. They are employed throughout the public and private sectors.

## 0111 Financial managers

Financial managers plan, organize, direct, control and evaluate the operation of financial and accounting departments. They develop and implement the financial policies and systems of establishments. Financial managers establish performance standards and prepare various financial reports for senior management. They are employed in financial and accounting departments in companies throughout the private sector and in government.

*Inclusion(s)*

- corporate risk department manager
- pension plans administrator
- pension services manager

*Illustrative example(s)*

- controller - financial services
- director - financial services
- director of accounting
- finance director
- financial administrator
- financial control manager
- financial planning and analysis manager
- internal audit services manager
- treasurer

*Exclusion(s)*

- Banking, credit and other investment managers (see 0122 Banking, credit and other investment managers)
- Managers of accounting and auditing firms (see 0125 Other business services managers)
- Senior managers - financial, communications and other business services (see 0013 Senior managers - financial, communications and other business services)

*Main duties*

Financial managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operation of an accounting, audit or other financial department
- Develop and implement the financial policies, systems and procedures of an establishment

- Prepare or co-ordinate the preparation of financial statements, summaries, and other cost-benefit analyses and financial management reports
- Co-ordinate the financial planning and budget process, and analyze and correct estimates
- Supervise the development and implementation of financial simulation models
- Evaluate financial reporting systems, accounting procedures and investment activities and make recommendations for changes to procedures, operating systems, budgets and other financial control functions to senior managers and other department or regional managers
- Recruit, organize, train and manage staff
- Act as liaison between the organization and its shareholders, the investing public and external financial analysts
- Establish profitability standards for investment activities and handle mergers and/or acquisitions
- Notify and report to senior management concerning any trends that are critical to the organization's financial performance.

*Employment requirements*

- A bachelor's degree in business administration, economics, commerce or a related field is required.
- A master's degree in business administration (concentration in finance), or another master's level management program may be required.
- Accounting and audit managers may require a recognized accounting designation (CPA, CA, CPA, CMA or CPA, CGA).
- Several years of experience in accounting, auditing, budgeting, financial planning and analysis or other financial activities are required.

*Additional information*

- Progression to senior management positions, such as vice-president of finance, is possible with experience.

## 0112 Human resources managers

Human resources managers plan, organize, direct, control and evaluate the operations of human resources and personnel departments, and develop and implement policies, programs and procedures regarding human resource planning, recruitment, collective bargaining, training and development, occupation classification and pay and benefit administration. They represent management and participate actively on various joint committees to maintain ongoing relations between management and employees. Human resources managers are employed throughout the private and public sectors.

*Inclusion(s)*

- employment equity manager - human resources

*Illustrative example(s)*

- employer-employee relations manager
- human resources administrator
- human resources manager
- industrial relations manager
- occupational health and safety manager
- pay and benefits manager
- personnel services manager
- personnel training and development manager
- recruiting manager
- staff relations manager

*Exclusion(s)*

- Human resources and recruitment officers (see 1223 Human resources and recruitment officers)
- Human resources professionals (see 1121 Human resources professionals)

*Main duties*

Human resources managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of human resources or personnel departments
- Plan human resource requirements in conjunction with other departmental managers
- Co-ordinate internal and external training and recruitment activities
- Develop and implement labour relations policies and procedures and negotiate collective agreements
- Administer employee development, language training and health and safety programs
- Advise and assist other departmental managers on interpretation and administration of personnel policies and programs
- Oversee the classification and rating of occupations
- Organize and conduct employee information meetings on employment policy, benefits and compensation and participate actively on various joint committees
- Direct the organization's quality management program
- Ensure compliance with legislation such as the Pay Equity Act.

*Employment requirements*

- A bachelor's degree in a field related to personnel management, such as business administration, industrial relations, commerce or psychology or Completion of a professional development program in personnel administration is required.
- Several years of experience as a personnel officer or human resource specialist are required.
- Some employers may require human resources managers to hold a Certified Human Resources Professional (CHRP) designation.

*Additional information*

- Other joint committees led by human resources managers may focus on issues such as alcohol or drug addiction.
- Progression to senior management positions is possible with experience.

## 0113 Purchasing managers

Purchasing managers plan, organize, direct, control and evaluate the activities of a purchasing department and develop and implement the purchasing policies of a business or institution. They are employed throughout the public and private sectors.

*Illustrative example(s)*

- contract manager
- food purchasing manager
- material manager
- procurement director
- purchasing contracts manager
- purchasing director
- supply chain logistics manager

*Exclusion(s)*

- Purchasing agents and officers (see 1225 Purchasing agents and officers)
- Retail and wholesale buyers (see 6222 Retail and wholesale buyers)
- Warehouse managers (see 0714 Facility operation and maintenance managers)

*Main duties*

Purchasing managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the purchasing activities of an establishment
- Develop purchasing policies and procedures and control purchasing department budget
- Identify vendors of materials, equipment or supplies
- Evaluate cost and quality of goods or services
- Negotiate or oversee the negotiation of purchase contracts
- Participate in the development of specifications for equipment, products or substitute materials

- Review and process claims against suppliers
- Interview, hire and oversee training of staff.

*Employment requirements*

- A bachelor's degree or college diploma in business administration, commerce or economics is usually required.
- Purchasing managers responsible for units purchasing specialized materials or business services may require a related degree or diploma. For example, a bachelor's degree or college diploma in engineering may be required for purchasing managers responsible for purchasing industrial products.
- Several years of experience as a purchasing agent or officer are required.
- The designation Supply Chain Management Professional (SCMP) or registration in the educational program of the Supply Chain Management Association may be required.

### 0114 Other administrative services managers

This unit group includes managers who plan, organize, direct, control and evaluate departments responsible for corporate governance and regulatory compliance, records management, security services, admissions and other administrative services not elsewhere classified. Also included in this unit group are managers responsible for departments involved in two or more of the following activities: finance, human resources, purchasing or administrative services. Managers in this unit group are employed throughout the public and private sector.

*Illustrative example(s)*

- administrative services chief
- administrative services manager
- business manager - non-profit organization
- inventory control manager
- records administrator
- regional administrative manager
- security manager
- support services manager

*Exclusion(s)*

- Computer and information systems managers (see 0213 Computer and information systems managers)
- Facility operation and maintenance managers (see 0714 Facility operation and maintenance managers)
- Financial managers (see 0111 Financial managers)
- Human resources managers (see 0112 Human resources managers)
- Purchasing managers (see 0113 Purchasing managers)

*Main duties*

Managers in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a department providing a single administrative service or several administrative services
- Direct and advise staff engaged in providing records management, security, finance, purchasing, human resources or other administrative services
- Direct and control corporate governance and regulatory compliance procedures within the establishment
- Plan, administer and control budgets for contracts, equipment and supplies
- Prepare reports and briefs for management committees evaluating administrative services
- Interview, hire and oversee training for staff.

*Employment requirements*

- A bachelor's degree or college diploma in business administration or a related administrative services field is usually required.
- An Associate of the Institute of Chartered Secretaries and Administrators (ACIS), Fellow of the Institute of Chartered Secretaries and Administrators (FCIS) or a Professional Administrator (P Adm) designation may be required for some occupations in this group.

- Certification in health information management by the Canadian Health Information Management Association (CHIMA) may be required.
- In Quebec, certification with the Association québécoise des archivistes médicales may be required.
- Several years of experience at a professional level in business administration, finance or administrative services are usually required.

## 012 Managers in financial and business services

This minor group includes insurance, real estate and financial brokerage managers; banking, credit and investment managers; advertising, marketing, and public relations managers; and other business services managers. They are employed by insurance companies, real estate firms, stockbrokers, investment dealers, mortgage brokers and security and commodity exchanges; banks, trust companies and credit unions; credit departments in department stores and other industrial and commercial organizations; credit card, consumer loan, mutual fund, mortgage and other loan, financing and investment companies; government departments; advertising, marketing and public relations firms and consulting businesses; and other establishments that provide services to business.

### 0121 Insurance, real estate and financial brokerage managers

Insurance, real estate and financial brokerage managers plan, organize, direct, control and evaluate the activities of departments or establishments that provide insurance, mortgage, real estate and investment services. They are generally responsible for business development and must ensure that their group reaches performance levels related to established objectives. They are employed by insurance companies, real estate firms, stockbrokers, investment dealers, mortgage brokers and security and commodity exchanges.

*Inclusion(s)*
- real estate developer

*Illustrative example(s)*
- bond sales manager
- brokerage manager - investments
- commodities trading manager
- financial brokerage manager
- insurance claims service manager
- insurance manager
- investment manager - financial brokerage
- mortgage broker manager
- real estate broker
- real estate service manager
- securities sales director
- trading floor manager

*Exclusion(s)*
- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Banking, credit and other investment managers (see 0122 Banking, credit and other investment managers)
- Financial managers (see 0111 Financial managers)
- Other business services managers (see 0125 Other business services managers)
- Senior managers - financial, communications and other business services (see 0013 Senior managers - financial, communications and other business services)

*Main duties*

Insurance, real estate and financial brokerage managers in this unit group perform some or all of the following duties:
- Insurance managers plan, organize, direct, control and evaluate the operations of an establishment or department that provides automobile, fire, life, property or other types of insurance services

- Real estate service managers plan, organize, direct, control and evaluate the operations of an establishment or department that buys, sells and leases residential and commercial properties for clients
- Mortgage broker managers plan, organize, direct, control and evaluate the operations of an establishment or department that finds lenders or lending institutions on behalf of clients seeking a mortgage
- Securities managers plan, organize, direct, control and evaluate the operation of an establishment or department that buys and sells stocks, bonds and other forms of investments on behalf of individual or institutional clients and manage the investments of their own clientsclients

*Employment requirements*

- A university degree or college diploma in business administration, economics or other related field is usually required.
- In the insurance industry, a recognized professional designation is usually required.
- Licensure appropriate to the service sold, such as real estate, mortgage, securities or insurance, may be required.
- Several years of experience within the appropriate industry are usually required.

*Additional information*

- Progression to senior management positions is possible with experience.
- There is no mobility between the different types of managers in this unit group.

## 0122 Banking, credit and other investment managers

Banking, credit and other investment managers plan, organize, direct, control and evaluate the activities of financial establishments or operational departments within such establishments, or credit departments in industrial and commercial establishments. They oversee business development and manage overall performance in accordance with established strategic directions and policies. Banking managers are employed by banks, trust companies and credit unions. Credit managers are employed by credit departments in department stores, utility companies, car dealerships, insurance companies or other industrial or commercial organizations. Other investment managers are employed by credit card companies, consumer loan companies, mutual fund investment firms, mortgage investment companies or other financial establishments concerned with extending loans and financing and investments.

*Illustrative example(s)*

- assistant operations manager - banking, credit and investment
- bank manager
- banking operations manager
- collection centre manager
- commercial banking manager
- corporate banking centre manager
- corporate services manager - banking, credit and investment
- credit card centre manager
- credit card company operations manager
- credit manager
- credit union manager
- mortgage and consumer credit manager
- personal services manager - banking, credit and investment
- regional collection manager
- trust company manager

*Exclusion(s)*

- Mortgage brokerage managers (see 0121 Insurance, real estate and financial brokerage managers)
- Other business services managers (see 0125 Other business services managers)
- Senior managers - financial, communications and other business services (see 0013 Senior managers - financial, communications and other business services)

*Main duties*

Banking managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the branch operations of a bank, trust company, credit union or similar financial institution or of a department in such an institution responsible for administering personal and commercial loans, buying and selling securities, operating investment funds, administering trusts, settling estates or other related activities
- Ensure the institution's policies and procedures are followed according to established guidelines and make recommendations for improvement
- Network to develop business relations, promote the sale of loan, investment and other banking services and attract corporate and individual customers
- Interview corporate and individual customers and respond to customer enquiries
- Analyze, review and approve or reject loan and credit applications in accordance with authorized limits
- Monitor processing of loan applications and credit investigations
- Oversee preparation of monthly financial and branch progress reports
- Recruit personnel and identify their training needs.

Credit managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a credit department in an industrial or commercial organization
- Administer corporate, commercial and personal loan accounts
- Advise customers on the commercial and personal financial services corresponding to their needs
- Evaluate and review loan and credit applications and collateral and make recommendations
- Approve or reject credit applications, establish credit limits and determine repayment plans or schedules in accordance with authorized limits
- Ensure collection of overdue or delinquent accounts
- Ensure credit policies and procedures are followed according to established guidelines and applicable legislation
- Prepare credit and loan reports
- Recruit credit personnel and identify their training needs.

*Employment requirements*

- A master's degree in business administration, finance or management science may be required for the management of large commercial loans.
- A university degree or college diploma in business administration, commerce, economics or a related field is usually required.
- Completion of company or other management training programs is usually required.
- Several years of experience within the industry, including supervisory experience, are required.

*Additional information*

- Progression to senior management positions in this field is possible with experience.

## 0124 Advertising, marketing and public relations managers

Advertising, marketing, public relations and e-business managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial and e-business advertising, marketing and public relations. They are employed by commercial and industrial establishments, government departments, and advertising, marketing and public relations firms or consulting businesses.

*Illustrative example(s)*

- advertising director
- advertising manager
- communications director
- e-business manager
- fundraising campaign manager
- Internet communications manager
- marketing manager
- media relations director
- promotions manager
- public relations director

- sales and marketing manager
- Web communications manager
- Web marketing manager

*Exclusion(s)*

- Corporate sales managers (see 0601 Corporate sales managers)
- Professional occupations in advertising, marketing and public relations (see 1123 Professional occupations in advertising, marketing and public relations)
- Retail and wholesale trade managers (see 0621 Retail and wholesale trade managers)
- Retail sales supervisors (see 6211 Retail sales supervisors)
- Senior managers - trade, broadcasting and other services, n.e.c. (see 0015 Senior managers - trade, broadcasting and other services, n.e.c.)
- Supervisors of technical salespersons (see 6221 Technical sales specialists - wholesale trade)
- Wholesale trade representatives supervisors (see 6411 Sales and account representatives - wholesale trade (non-technical))

*Main duties*

Managers in this unit group perform some or all of the following duties:

- Advertising managers plan, direct and evaluate the activities of firms and departments that develop and implement advertising campaigns to promote the sales of products and services.
- Marketing managers establish distribution networks for products and services, initiate market research studies and analyze their findings, assist in product development, and direct and evaluate the marketing strategies of establishments.
- Public relations managers direct and evaluate establishments and departments that develop and implement communication strategies and information programs, publicize activities and events, and maintain media relations on behalf of businesses, governments and other organizations.
- E-business marketing managers plan, organize, direct, control and evaluate the design, development and maintenance of Internet, Intranet and mobile applications to manage an organization's online presence including public relations, communications, commercial activities and social media management.

*Employment requirements*

- A university degree or college diploma in a field related to electronic commerce, Web site content development, or Internet and mobile services and Experience in Web site design, interactive media development, data administration or information systems analysis or experience related to Web site content are usually required.
- A university degree or college diploma in business administration or in a related field with a specialization in sales or marketing and Several years of experience as a sales, marketing or public relations representative or in a related occupation are required.
- A university degree or college diploma in communications, public relations, marketing, journalism or in a related field and Several years of experience in an advertising, public relations or communications officer position or in a related occupation are required.
- Advertising and public relations managers
- E-business managers
- Marketing managers

*Additional information*

- Progression to senior management positions is possible with experience.

## 0125 Other business services managers

Managers in this unit group plan, organize, direct, control and evaluate the operations of establishments that provide services to business, and ensure the quality of those services and client satisfaction. They work in fields such as management consulting, market research, personnel and payroll services, contact centre services and security services.

*Illustrative example(s)*

- accounting firm manager
- contact centre manager
- employment agency manager
- energy asset joint venture manager
- legal firm manager
- management consulting service manager
- market research service manager
- nursing registry manager
- payroll service manager
- personnel agency manager
- professional services manager - business services
- security service manager

*Exclusion(s)*

- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Architecture and science managers (see 0212 Architecture and science managers)
- Banking, credit and other investment managers (see 0122 Banking, credit and other investment managers)
- Computer and information systems managers (see 0213 Computer and information systems managers)
- Engineering managers (see 0211 Engineering managers)
- Insurance, real estate and financial brokerage managers (see 0121 Insurance, real estate and financial brokerage managers)
- Senior managers - financial, communications and other business services (see 0013 Senior managers - financial, communications and other business services)

*Main duties*

Managers in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of establishments that provide services to business such as management consulting, market research, personnel and payroll services, contact centre services and security services
- Plan, develop and organize the policies and procedures of these establishments
- Develop action plans, provide expertise in response to client needs, and support and advise project teams
- Direct and advise staff in the development and implementation of service quality assessment strategies
- Plan, administer and control budgets for client projects, contracts, equipment and supplies
- Represent the company within various economic and social organizations
- Assist staff with administrative or technical problems
- Hire, train and supervise staff.

*Employment requirements*

- A bachelor's degree or college diploma in a field related to the business service provided is usually required.
- Licences, certificates or registration may be required for some business services managers. For example, accounting firm managers usually require accounting certification.
- Several years of experience in a field related to the business service provided are usually required.
- University studies in business administration may be required.

## 013 Managers in communication (except broadcasting)

This minor group includes telecommunications carriers managers, postal managers and courier services managers. They are employed by wired, wireless, satellite and other telecommunications carriers, courier companies and Canada Post Corporation.

## 0131 Telecommunication carriers managers

Managers in this unit group plan, organize, direct, control and evaluate the operations of a telecommunications establishment, department or facility. They are employed by wired, wireless, satellite and other telecommunications carriers.

*Illustrative example(s)*

- microwave facilities manager - telecommunications
- network installation manager - telecommunications
- network operations manager - telecommunications
- network services manager - telecommunications
- operations and transmission services manager - telecommunications
- regional manager - telecommunications system
- switching systems director - telecommunications
- telecommunications facilities manager
- telecommunications installation manager
- telecommunications manager
- telecommunications services manager
- telephone company district manager

*Exclusion(s)*

- Broadcasting managers (see 0512 Managers - publishing, motion pictures, broadcasting and performing arts)
- Senior managers - financial, communications and other business services (see 0013 Senior managers - financial, communications and other business services)

*Main duties*

Telecommunication carriers' managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a telecommunications establishment, department or facility
- Consult with senior managers to establish policies concerned with the development, operation and maintenance of telecommunications services
- Direct and control telecommunications traffic volume and flow within assigned areas, through subordinate supervisors and technical staff
- Analyze and evaluate telecommunications installation, operation and maintenance services and make recommendations for improvement
- Ensure compliance with telecommunications regulations and directives of government regulatory agencies
- Liaise with representatives of related or connecting companies to resolve joint telecommunications problems and ensure efficient telecommunications system operations
- Recruit personnel and oversee their training.

*Employment requirements*

- A university degree in science, electrical engineering or a related field is usually required.
- Several years of experience in a related technical profession, including supervisory experience, are usually required.

*Additional information*

- Progression to senior management positions in telecommunications is possible with experience.

## 0132 Postal and courier services managers

Postal and courier services managers plan, organize, direct, control and evaluate the activities and operations in postal facilities and in establishments that provide courier services. They are employed by Canada Post Corporation and by courier companies.

*Illustrative example(s)*

- collection and delivery operations manager - postal service
- mail operations manager
- mail processing plant manager
- messenger service manager
- parcel processing plant manager
- post office manager
- postal station superintendent
- production control manager - postal service

*Exclusion(s)*

- Postmasters (see 1214 Supervisors, mail and message distribution occupations)

*Main duties*

Postal and courier services managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of postal facilities and courier service companies, or of operational divisions within Canada Post and courier service companies
- Co-ordinate the duties of supervisors and other staff
- Manage the accurate and expedient movement of mail and parcels through postal and parcel sorting facilities
- Review effectiveness of assigned operations and implement changes to postal and courier operations
- Prepare and submit budget estimates and administer the expenditures of postal and courier facilities
- Interview, hire and provide training for staff.

*Employment requirements*

- A university degree or college diploma is usually required.
- Several years of supervisory or operational experience within a postal or courier facility are usually required.

## 021 Managers in engineering, architecture, science and information systems

This minor group includes engineering managers, architecture managers, science managers, computer managers and information systems managers. They are employed throughout the public and private sectors and by government establishments, consulting engineering and scientific research companies and architectural firms.

Occupations in this minor group are classified into the following unit group(s):

0211 - Engineering managers

0212 - Architecture and science managers

0213 - Computer and information systems managers

### 0211 Engineering managers

Engineering managers plan, organize, direct, control and evaluate the activities of an engineering department, service or firm. They are employed by a wide range of private sector and government establishments and by consulting engineering and scientific research companies.

*Illustrative example(s)*

- electrical engineering service manager
- engineering department manager
- engineering manager
- engineering research and development director
- production engineering manager
- telecommunications engineering service manager

*Exclusion(s)*

- Architecture and science managers (see 0212 Architecture and science managers)
- Computer and information systems managers (see 0213 Computer and information systems managers)
- Construction managers (see 0711 Construction managers)
- Engineers and supervisors of engineers (see 21 Professional occupations in natural and applied sciences)
- Managers in transportation (see 0731 Managers in transportation)
- Manufacturing managers (see 0911 Manufacturing managers)
- Utilities managers (see 0912 Utilities managers)

*Main duties*

Engineering managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of an engineering department, service or firm
- Develop and implement policies, standards and procedures for the engineering and technical work performed in the department, service, laboratory or firm
- Consult and negotiate with clients to prepare specifications, explain proposals and present engineering reports and findings
- Assign, co-ordinate and review the technical work of the department or project teams
- Recruit personnel and oversee development and maintenance of staff competence in required areas
- May participate directly in the design, development and inspection of technical projects or in the engineering work of the department.

*Employment requirements*

- A bachelor's degree in engineering is usually required.
- Extensive experience in an engineering discipline, including supervisory experience, is required.
- Registration as a Professional Engineer (P. Eng.) by a provincial or territorial association of professional engineers is usually required.

*Additional information*

- Mobility to other technical managerial positions, or to research or senior management positions is possible with experience.

## 0212 Architecture and science managers

Architecture and science managers plan, organize, direct, control and evaluate the activities of an architecture, landscape architecture, scientific or statistical department, service or firm. They are employed by a wide range of private sector and government establishments as well as by architectural firms and scientific research companies.

*Illustrative example(s)*

- agricultural chemistry branch director
- architectural manager
- chief actuary
- director of research - forestry
- director of research - manufacturing
- director of research - mining
- landscape architecture manager
- life sciences program manager
- petroleum geology department manager
- scientific research department manager
- statistical service manager

*Exclusion(s)*

- Computer and information systems managers (see 0213 Computer and information systems managers)
- Engineering managers (see 0211 Engineering managers)
- Managers in natural resources production and fishing (see 0811 Managers in natural resources production and fishing)

- Science professionals and supervisors of science professionals (see 21 Professional occupations in natural and applied sciences)

*Main duties*

Architecture and science managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities and operations of an architecture, landscape architecture, scientific research and development laboratory or quality control department, service or firm
- Develop and implement policies, standards and procedures for the architectural, scientific and technical work performed in the department, service, laboratory or firm
- Assign, co-ordinate and review the technical work of the department or project teams
- Recruit personnel and oversee development and maintenance of staff competence in required areas
- May participate directly in the design, development and inspection of technical projects or in the theoretical or applied scientific work of the department
- May consult and negotiate with clients to prepare specifications, explain proposals or present architectural or scientific research reports and findings.

*Employment requirements*

- Architecture managers require a degree in architecture, registration as a professional architect and several years of experience as an architect.
- Landscape architecture managers require a degree in landscape architecture, licensing as a professional landscape architect and several years of experience as a landscape architect.
- Science and other managers in this unit group require a master's or doctoral degree in a scientific discipline and several years of experience in a related scientific discipline.

*Additional information*

- Progression to senior management positions in the respective fields is possible with experience.

## 0213 Computer and information systems managers

Computer and information systems managers plan, organize, direct, control and evaluate the activities of organizations that analyze, design, develop, implement, operate and administer computer and telecommunications software, networks and information systems. They are employed throughout the public and private sectors.

*Illustrative example(s)*

- computer systems manager
- data centre manager
- data processing and systems analysis manager
- data processing director
- EDP (electronic data processing) manager
- information systems manager
- management information system (MIS) manager
- software development manager
- software engineering manager
- systems development manager

*Exclusion(s)*

- Computer and information systems supervisors (see 217 Computer and information systems professionals)
- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Computer services company presidents (see 0013 Senior managers - financial, communications and other business services)
- Database analysts and data administrators (see 2172 Database analysts and data administrators)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)

- LAN managers (see 2281 Computer network technicians)
- Software engineers and designers (see 2173 Software engineers and designers)

*Main duties*

Computer and information systems managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of information systems and electronic data processing (EDP) departments and companies
- Develop and implement policies and procedures for electronic data processing and computer systems development and operations
- Meet with clients to discuss system requirements, specifications, costs and timelines
- Assemble and manage teams of information systems personnel to design, develop, implement, operate and administer computer and telecommunications software, networks and information systems
- Control the budget and expenditures of the department, company or project
- Recruit and supervise computer analysts, engineers, programmers, technicians and other personnel and oversee their professional development and training.

*Employment requirements*

- A bachelor's or master's degree in computer science, business administration, commerce or engineering is usually required.
- Several years of experience in systems analysis, data administration, software engineering, network design or computer programming, including supervisory experience, are required.

### 031 Managers in health care

This minor group includes health care directors, chiefs and managers. They are employed in hospitals, medical clinics, nursing homes and other health care organizations.

### 0311 Managers in health care

Managers in this unit group plan, organize, direct, control and evaluate the delivery of health care services, such as diagnosis and treatment, nursing and therapy, within institutions, and in other settings, that provide health care services. They are employed in hospitals, medical clinics, nursing homes and other health care organizations.

*Illustrative example(s)*

- chief of anesthesia
- chief of emergency medicine
- chief of medical staff
- director of clinical medicine
- director of dietetics
- director of laboratory medicine
- director of nursing - medical services
- director of occupational therapy
- director of physiotherapy
- director of surgery
- home care services director - medical services
- medical clinic director
- mental health residential care program manager
- rehabilitation services director

*Exclusion(s)*

- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)
- Senior managers - health, education, social and community services and membership organizations (see 0014 Senior managers - health, education, social and community services and membership organizations)

*Main duties*

Managers in health care perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the delivery of health care services within a department of a health care institution, or in other settings where health care services are provided
- Consult with boards of directors and senior managers to maintain and establish standards for the provision of health care services
- Develop evaluation systems to monitor the quality of health care given to patients
- Monitor the use of diagnostic services, in-patient beds and facilities to ensure effective use of resources
- Develop and implement plans for new programs, special projects, new material and equipment acquisitions and future staffing levels in their department or establishment
- Plan and control departmental or establishment budget
- Represent the department or establishment at meetings with government officials, the public, the media and other organizations
- Supervise health care supervisors and professionals
- Recruit health care staff of the department or establishment.
- Managers in health care specialize in administering the provision of specific health care services such as dietetics, clinical medicine, laboratory medicine, nursing, physiotherapy or surgery.

*Employment requirements*

- Administrators of departments such as surgery, clinical medicine or laboratory medicine are usually required to have the education and training of a specialist physician.
- Administrators of other departments, such as nursing, dietetics or physiotherapy, are usually required to have the education and training of the medical professionals in that department.
- Certification in the relevant profession is required.
- Several years of experience in the relevant profession, including supervisory experience, are usually required.

*Additional information*

- Progression to senior management positions in health care services is possible with experience.
- There is little or no mobility between departments in different medical specializations.

## 041 Managers in public administration

This minor group includes public administration managers. They are employed by government departments, agencies, and legislative bodies.

## 0411 Government managers - health and social policy development and program administration

Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of health care policies, social policies and related programs designed to protect and promote the health and social welfare of individuals and communities. They are employed by all levels of government.

*Illustrative example(s)*

- city medical officer of health - government services
- health information and promotion director - government services
- health program operations manager - government services
- housing policy and development director - government services
- immigration and settlement director - government services
- social services director - government services
- social services planning manager - government services

*Exclusion(s)*

- Government managers - economic analysis, policy development and program administration (see 0412 Government managers - economic analysis, policy development and program administration)
- Government managers - education policy development and program administration (see 0413 Government managers - education policy development and program administration)

- Managers in health care (see 0311 Managers in health care)
- Managers in social, community and correctional services (see 0423 Managers in social, community and correctional services)
- Other managers in public administration (see 0414 Other managers in public administration)
- Program managers in government (see 416 Policy and program researchers, consultants and officers)
- Senior government managers and officials (see 0012 Senior government managers and officials)

*Main duties*

Government managers in health and social policy development and program administration perform some or all of the following duties:

- Participate in the development of health or social policies by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise health or social policy researchers, consultants or program officers who conduct research, prepare documents or administer programs for individuals and communities in areas such as health and social services, employment and immigration, labour or housing
- Plan, administer and control budgets for research and administration, support services and equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate health and social services projects and programs
- Interview, hire and provide training for staff.

*Employment requirements*

- A bachelor's degree or a college diploma in a social science discipline, such as sociology or economics, or an administrative discipline, such as public administration, is required.
- A bachelor's degree or college diploma in health science, hospital administration or public administration or a bachelor's degree in social science is required.
- A graduate degree in a health, social science or an administrative discipline may be required.
- A graduate degree in a social science or an administrative discipline may be required.
- For some government managers in health policy development and program administration, certification in the relevant health profession is required. For example, city medical officers of health must be physicians.
- Government managers in health policy development and program administration
- Government managers in social policy development and program administration
- Several years of experience as a health or social policy researcher, consultant or program officer are usually required.
- Several years of experience as a social policy researcher, consultant or program officer are usually required.

*Additional information*

- Progression to senior management positions in the health and social policy fields is possible with experience.

## 0412 Government managers - economic analysis, policy development and program administration

Government managers in this unit group plan, organize, direct, control and evaluate economic policy, research and programs in areas of government activity such as taxation, international trade, labour markets, transportation or agriculture. They also plan and direct policies and programs to promote industrial and commercial business development in urban and rural areas. They are employed by all levels of government.

*Illustrative example(s)*

- border services manager
- business development director - government services
- customs manager - government services
- economic analysis chief - government services

- economic development director - government services
- economic policy analysis director - government services
- energy market analysis director - government services
- excise tax programs director - government services
- farm products marketing director - government services
- forest resource analysis chief - government services
- grain market analysis manager - government services
- international trade policy manager - government services
- revenue programs manager - government services
- tax policy research manager - government services
- taxation manager
- tourism development manager - government services
- trade development director

*Exclusion(s)*

- Business development officers and marketing researchers and consultants (see 4163 Business development officers and marketing researchers and consultants)
- Economists and economic policy researchers and analysts (see 4162 Economists and economic policy researchers and analysts)
- Financial managers (see 0111 Financial managers)
- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)
- Labour policy analysts (see 4164 Social policy researchers, consultants and program officers)
- Program managers in government (see 416 Policy and program researchers, consultants and officers)
- Senior government managers and officials (see 0012 Senior government managers and officials)

*Main duties*

Government managers in economic analysis and program administration perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the development of economic policy research projects and economic programs
- Participate in the development of departmental policies by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise economists and other professional staff who conduct economic research, prepare reports or administer programs in areas of government activity such as taxation, international trade, labour, transportation or agriculture
- Direct and advise economic development officers or other staff administering programs to promote industrial and commercial business investment in urban or rural areas
- Plan, administer and control research and administration budgets for projects, support services, equipment or supplies
- Organize and direct committees evaluating departmental or agency projects or programs
- Interview, hire and oversee training and professional development.

*Employment requirements*

- A bachelor's degree in economics, business administration, commerce or public administration is required.
- A master's degree in economics or a related field may be required.
- Several years of experience as an economist, economic development officer or socio-economic researcher are required.

*Additional information*

- Progression to senior management positions is possible with experience.

## 0413 Government managers - education policy development and program administration

Government managers in this unit group plan, organize, direct, control and evaluate the development and administration of elementary, secondary and post-secondary education policies and programs. They are employed by all levels of government.

*Illustrative example(s)*

- education curriculum development director
- education director
- education policy analysis and research director
- education program administration manager
- school inspection director - public administration

*Exclusion(s)*

- Administrators - post-secondary education and vocational training (see 0421 Administrators - post-secondary education and vocational training)
- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)
- Program managers in government (see 416 Policy and program researchers, consultants and officers)
- School principals and administrators of elementary and secondary education (see 0422 School principals and administrators of elementary and secondary education)
- Senior government managers and officials (see 0012 Senior government managers and officials)

*Main duties*

Government managers in this unit group perform some or all of the following duties:

- Participate in the development of education policy by providing advice to senior government managers
- Organize departmental unit and establish procedures to meet departmental objectives set by senior management
- Direct and advise policy researchers or program officers conducting research, preparing documents or administering educational programs for elementary and secondary school systems
- Plan, administer and control budgets for projects, programs, support services, equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate education projects and programs
- Interview, hire and provide training for staff.

*Employment requirements*

- A bachelor's degree in education is required.
- A master's degree in a particular educational specialization may be required.
- A provincial teaching certificate is usually required.
- Several years of combined experience as a school teacher and as a government educational policy researcher, consultant or program officer are usually required.

*Additional information*

- Progression to senior management positions in education is possible with experience.

## 0414 Other managers in public administration

Managers in this unit group plan, organize, direct, control and evaluate the development of policies and programs which govern the daily operations of legislatures and other activities unique to government such as intergovernmental affairs and elections. They are employed by all levels of government.

*Illustrative example(s)*

- clerk of the committee - Legislative Assembly
- elections planning director
- federal-provincial relations director
- intergovernmental affairs director

*Exclusion(s)*

- Administrative services managers (see 011 Administrative services managers)
- Government managers - economic analysis, policy development and program administration (see 0412 Government managers - economic analysis, policy development and program administration)
- Government managers - education policy development and program administration (see 0413 Government managers - education policy development and program administration)
- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)
- Program managers in government (see 416 Policy and program researchers, consultants and officers)
- Senior government managers and officials (see 0012 Senior government managers and officials)

*Main duties*

Managers in this unit group perform some or all of the following duties:

- Participate in the development of policies and programs by providing advice to senior government managers of legislatures or departments or agencies involved in activities unique to government
- Organize government unit or agency and establish procedures to meet objectives set by senior management
- Direct and advise professional and non-professional staff conducting research, preparing documents or providing administrative support
- Plan, administer and control research and administration budgets for projects, programs, equipment and supplies
- Organize and direct committees and working groups to plan, manage or evaluate projects and programs
- Interview, hire and provide training for staff.

*Employment requirements*

- A bachelor's degree in a social science discipline, law or business administration is required.
- Several years of experience in government policy development, research or program administration, or in a professional occupation in social science, law or business administration are usually required.

*Additional information*

- Progression to senior management positions in this field is possible with experience.

## 042 Managers in education and social and community services

This minor group includes education administrators, school principals and social, community and correctional services managers. They are employed by colleges, universities, vocational training schools, public and private elementary and secondary schools and school boards; social service and community agencies, correctional institutions, counselling departments, labour organizations, professional associations, political parties and non-governmental organizations.

### 0421 Administrators - post-secondary education and vocational training

This unit group includes faculty administrators and registrars of colleges or universities and administrators of vocational training schools. Faculty administrators manage the academic and related activities of faculties of colleges or universities. Registrars manage registration activities and academic records systems of colleges or universities. Administrators of vocational training schools manage the operations of vocational schools specializing in trades, technology, business or other vocational subjects.

*Illustrative example(s)*

- aviation school manager
- business school manager
- community college dean
- community college registrar
- dean - university or college
- dean of adult education
- faculty of science dean

- school of nursing dean
- school of technology dean
- student activities dean
- trade school manager
- university registrar

*Exclusion(s)*

- Administrators of non-vocational training schools, such as driving schools (see 0651 Managers in customer and personal services, n.e.c.)
- College and other vocational instructors (see 4021 College and other vocational instructors)
- College rectors (see 0014 Senior managers - health, education, social and community services and membership organizations)
- School principals and administrators of elementary and secondary education (see 0422 School principals and administrators of elementary and secondary education)
- University presidents (see 0014 Senior managers - health, education, social and community services and membership organizations)
- University professors and lecturers (see 4011 University professors and lecturers)

*Main duties*

Administrators of post-secondary education and vocational training perform some or all of the following duties:

- Faculty administrators
- Plan, organize, direct, control and evaluate academic and related activities of a college or university faculty
- Recommend and approve faculty appointments
- Recommend curriculum revisions and additions and approve scheduling of courses
- Direct, through subordinate staff, activities such as research and curriculum development
- Plan, administer and control budgets for projects, programs, support services and equipment
- Advise president or rector of university or college
- Participate in activities of various faculty and college committees.
- Registrars
- Plan, organize, direct, control and evaluate the registration activities and academic records system of a college or university
- Review registration statistics and consult with faculty officials to develop registration policies
- Direct activities of staff and others engaged in compiling information on courses, schedules and requirements for admission and graduation.
- Administrators of vocational training schools
- Plan, organize, direct, control and evaluate the activities of a private college or institute specializing in trades, technology or business
- Develop curriculum for training programs
- Consult with government regulatory and licensing agencies to ensure conformance to provincial standards
- Plan, administer and control budgets for projects, programs, support services and equipment
- May recruit and hire teachers and other staff
- May teach.

*Employment requirements*

- Administrators of vocational training schools usually require an undergraduate degree in business administration or Expertise and certification in a subject of instruction.
- Faculty administrators require a graduate degree in a field related to the academic faculty and Several years of experience as a university professor or college teacher.
- Registrars require an undergraduate degree in business administration or a related field and Several years of experience in registration administration.

*Additional information*

- Progression to some senior management positions in education is possible with experience.
- There is no mobility among the various types of administrators in this group.

## 0422 School principals and administrators of elementary and secondary education

School principals plan, organize, direct, control and evaluate the activities of teachers and other staff of an elementary or secondary school. They are employed by public and private schools. Administrators of elementary and secondary education plan, organize, direct, control and evaluate the academic affairs of a school system. They are employed by school boards.

*Illustrative example(s)*

- board of education administrator
- chief superintendent - schools
- director of education - correctional institution
- director of school for the hearing impaired
- district school superintendent
- private school headmaster/mistress
- school principal
- school vice-principal
- secondary school principal
- superintendent of elementary education
- superintendent of secondary schools
- superintendent of special education

*Exclusion(s)*

- Administrators - post-secondary education and vocational training (see 0421 Administrators - post-secondary education and vocational training)
- Education policy researchers, consultants and program officers (see 4166 Education policy researchers, consultants and program officers)
- Government managers - education policy development and program administration (see 0413 Government managers - education policy development and program administration)
- Senior managers - health, education, social and community services and membership organizations (see 0014 Senior managers - health, education, social and community services and membership organizations)

*Main duties*

School principals and administrators of elementary and secondary education perform some or all of the following duties:

- School principals
- Plan, organize, direct, control and evaluate, through department heads or supervisors, the activities of teachers and support staff
- Review programs to ensure conformance to school board or provincial standards and develop programs within limits of authority
- Co-ordinate teaching activities of the institution by making personnel assignments, determining class size and preparing timetables
- Organize and maintain procedures for the keeping of records
- Prepare and administer institution or program budget
- Direct and co-ordinate school maintenance services and the use of school facilities
- May recruit and hire teachers and other staff
- May teach.
- Administrators of elementary and secondary education
- Plan, organize, direct, control and evaluate, through school principals, the academic affairs of a school district
- Evaluate curriculum, teaching methods and community participation in programs for a school district and revise programs as required
- Develop and administer programs for the education and training of students and adults
- Make recommendations concerning the annual operating budget of a school district
- Direct the recruitment, appointment, training, evaluation and promotion of teaching personnel.

*Employment requirements*

- A bachelor's degree in education is required.
- A master's degree in education may be required.
- A teacher's certificate for the province of employment is required.
- Administrators of elementary and secondary education may require a supervisory officer certificate.
- School principals may require a principal's certificate.
- Several years of experience as a senior teacher or department head are required.

*Additional information*

- There is little mobility between institutional settings, for example, between elementary and secondary schools.

### 0423 Managers in social, community and correctional services

This unit group includes managers who plan, organize, direct, control and evaluate the programs and activities of social service and community agencies, correctional institutions, counselling departments, labour organizations, professional associations, political parties and non-governmental organizations.

*Illustrative example(s)*

- association director
- child welfare services administrator
- children's aid society director
- community centre director
- correctional institution director
- correctional treatment and training director
- detention centre director
- environmental group director
- family services area manager
- income maintenance director
- labour organization manager
- membership services manager
- political organization manager
- prison warden
- social assistance director
- social services regional administrator
- social work director
- trade association manager
- volunteer services director

*Exclusion(s)*

- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)
- Senior managers - health, education, social and community services and membership organizations (see 0014 Senior managers - health, education, social and community services and membership organizations)

*Main duties*

Managers in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the delivery of social and community service programs such as income maintenance, children's aid and emergency housing services
- Manage the operations and activities of social and community centres, correctional facilities and detention centres
- Administer the programs of non-governmental organizations involved with social issues such as health care, human rights, consumer protection, international development and environmental protection
- Administer programs of membership organizations such as political parties, labour organizations, business and professional associations
- Establish administrative procedures to meet objectives set by board of directors or senior management

- Direct and advise professional and non-professional staff delivering services and programs to the general public and to the organization or association membership
- Plan, administer and control budgets for programs, equipment and support services
- Represent their respective organizations for the purpose of government liaison and media relations
- Participate in policy development by preparing reports and briefs for management committees and working groups
- Hire and provide training for professional and non-professional staff.

*Employment requirements*

- Managers in social, community and correctional services usually require a master's degree in a social science or administrative discipline and Several years of experience in a related occupation, such as a community and social service worker, social or health policy researcher, consultant or program officer, probation or parole officer, or social worker.
- Managers of associations and membership organizations require extensive experience in a related occupation, trade or industry.

*Additional information*

- Progression to senior management positions in social, community and correctional services is possible with additional training and experience.

## 043 Managers in public protection services

This minor group includes commissioned police officers, fire chiefs, senior firefighting officers and commissioned officers of the Canadian Armed Forces. They are employed by municipal, provincial and federal governments and industrial establishments with firefighting services.

### 0431 Commissioned police officers

Commissioned police officers plan, organize, direct, control and evaluate police force administration and police activities such as maintaining law and order and detecting and preventing crime. They are employed by municipal, provincial and federal governments. This unit group includes officers from the rank of staff sergeant to police commissioner. Commissioned officers in the railway police are also included in this unit group.

*Illustrative example(s)*

- chief superintendent
- deputy police chief
- harbour police chief
- police chief
- police lieutenant
- police superintendent
- railway police chief
- RCMP (Royal Canadian Mounted Police) commissioner
- staff inspector

*Exclusion(s)*

- By-law enforcement and other regulatory officers, n.e.c. (see 4423 By-law enforcement and other regulatory officers, n.e.c.)
- Police officers (except commissioned) (see 4311 Police officers (except commissioned))
- Sheriffs and bailiffs (see 4421 Sheriffs and bailiffs)

*Main duties*

Commissioned police officers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a police force or division of a police force
- Develop and implement police force policies and procedures
- Oversee police investigations and ensure that procedures are conducted in accordance with laws and regulations

- Assess performance of subordinates and authorize promotions, transfers and disciplinary actions
- Co-ordinate and monitor budget and departmental resources.

*Employment requirements*

- A university degree in the social sciences or in business administration is usually required.
- Completion of secondary school is required.
- Several years of experience as a police officer are required.

### 0432 Fire chiefs and senior firefighting officers

Fire chiefs and senior firefighting officers plan, organize, direct, control and evaluate firefighting operations and fire prevention activities in fire departments. Fire chiefs and senior firefighting officers are employed by municipal and federal governments and by industrial establishments with firefighting services.

*Illustrative example(s)*

- deputy fire chief
- district fire chief
- fire chief

*Exclusion(s)*

- Firefighters (see 4312 Firefighters)

*Main duties*

Fire chiefs and senior firefighting officers perform some or all of the following duties:

- Develop, implement and evaluate policies and procedures for the operation of a municipal fire department, a district fire region or an industrial firefighting service
- Plan, direct and co-ordinate firefighting strategies for fire departments
- Evaluate the type of fire, the extent of damage to buildings and the danger to nearby establishments
- Direct activities at the scene of a fire
- Determine damage estimates and investigate the potential causes of a fire after extinguished
- Develop and oversee the implementation of security and fire prevention campaigns
- Represent the fire department in communications with government, the media and the public
- Direct the training of personnel in firefighting methods
- Co-ordinate and monitor budget and departmental resources.

*Employment requirements*

- A minimum of ten years of experience as a firefighter is usually required before becoming eligible for a senior officer position.
- Completion of a college program in fire protection technology, fire science or a related field is usually required.
- Completion of a provincial or municipal firefighters training course is required.
- Completion of secondary school is required.

### 0433 Commissioned officers of the Canadian Armed Forces

This unit group consists of commissioned officers of the Canadian Armed Forces who plan, organize, command and evaluate the activities of personnel in the Canadian Armed Forces. All ranks of commissioned officers in the Royal Canadian Air Force, Canadian Army, and Royal Canadian Navy are included in this unit group.

*Illustrative example(s)*

- admiral
- artillery officer
- brigadier general
- colonel
- commodore
- lieutenant commander

- major
- naval cadet
- officer cadet
- search and rescue captain

*Exclusion(s)*

- Non-commissioned ranks of the Canadian Armed Forces (see 4313 Non-commissioned ranks of the Canadian Armed Forces)

*Main duties*

Commissioned officers of the Canadian Armed Forces perform some or all of the following duties:

- Plan, organize and command the activities of Canadian Armed Forces combat units such as armour, artillery and infantry battalions
- Develop and implement military procedures and policies based on detailed knowledge of units' capabilities and performance
- Direct subordinates in training and co-ordinate and direct activities of units in accordance with military practices
- Assume responsibility for welfare, morale and discipline of units
- Review and evaluate unit performance, prepare reports and provide briefings for superiors
- May command and lead units engaged in non-combat operations for disaster relief and humanitarian and peacekeeping efforts domestically and internationally.

*Employment requirements*

- A university degree is usually required.
- Completion of military training is required.
- Experience as a non-commissioned member of the armed forces and demonstrated leadership ability may substitute for a university degree.
- Senior ranks, such as colonel, require several years of experience.

*Additional information*

- Military personnel are classified according to their military rank.

## 051 Managers in art, culture, recreation and sport

This minor group includes library, archive, museum and art gallery managers; managers in publishing, motion pictures, broadcasting and performing arts; and recreation, sports and fitness program and service directors. They are employed by libraries, archives, museums and non-retail art galleries; radio and television stations; newspaper, periodical and book publishing firms; film, theatre, record and video production companies; and municipalities, community and private recreational and fitness organizations, sports governing agencies and professional athletic team organizations.

### 0511 Library, archive, museum and art gallery managers

Library, archive, museum and art gallery managers plan, organize, direct, control and evaluate the activities of libraries, archives, museums, art galleries or departments within such institutions. They are employed in libraries, archives, museums and non-retail art galleries.

*Illustrative example(s)*

- archives director
- art gallery manager
- assistant director of archives
- chief librarian
- library director
- museum administrator
- museum executive director

*Exclusion(s)*

- Archivists (see 5113 Archivists)
- Conservators and curators (see 5112 Conservators and curators)
- Librarians (see 5111 Librarians)
- Managers of records management departments (see 0114 Other administrative services managers)

*Main duties*

Library, archive, museum and art gallery managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of a library or library system, archive or archive system, museum or art gallery or a technical department within such an institution
- Develop and administer policies and programs
- Prepare and administer budgets
- Develop, promote and implement public relations and promotional programs
- Prepare funding and grant applications and proposals
- Prepare operational and financial reports, analyses and recommendations
- Recruit and provide training for professional, technical and clerical staff
- May perform the duties of a librarian, archivist or curator in smaller institutions.
- Library, archive, museum and art gallery managers may specialize in a specific type of collection.

*Employment requirements*

- A graduate degree in archival science or history and Several years of experience as an archivist or in historical research, including supervisory experience are required.
- A graduate degree in library and information science and Several years of experience as a librarian, including supervisory experience are required.
- A graduate degree related to a particular collection or a training program in arts administration and Several years of experience as a curator, conservator or artist or experience in other related museum and art gallery work are usually required.
- Archive managers
- Library managers
- Museum and art gallery managers

*Additional information*

- There is mobility between library and archive managers and between museum and art gallery managers.

## 0512 Managers - publishing, motion pictures, broadcasting and performing arts

Managers in this unit group plan, organize, direct, control and evaluate operations within publishing firms, film, theatre and record production companies and broadcasting facilities. They are employed by radio and television stations, by newspaper, periodical and book publishing firms, and by film, theatre, record and video production companies.

*Illustrative example(s)*

- ballet company director
- book publishing manager
- broadcasting manager
- broadcasting station manager
- copyright manager - publishing
- dance company director
- editor-in-chief
- managing editor
- opera company director
- publishing manager
- radio programming manager
- radio station manager
- television station manager
- theatre company manager

- video production company manager

*Exclusion(s)*
- Producers, directors, choreographers and related occupations (see 5131 Producers, directors, choreographers and related occupations)
- Publishers (see 0016 Senior managers - construction, transportation, production and utilities)
- Senior managers - trade, broadcasting and other services, n.e.c. (see 0015 Senior managers - trade, broadcasting and other services, n.e.c.)

*Main duties*

Managers in this unit group perform some or all of the following duties:
- Establish procedures and implement policies in newspaper and publishing firms, in film, theatre, record and video production companies, and in radio and television stations
- Plan and maintain production schedules for publications, films, broadcasts, and theatre, record and video productions
- Prepare and control budgets
- Hire and supervise staff
- Consult with government regulatory agencies to evaluate and review programs and policies, and to ensure conformance with regulations
- Initiate or approve development of articles, books, films, broadcasts, musical recordings and theatre productions, and liaise with authors, composers, producers and directors.

*Employment requirements*
- A university degree or college diploma in communications, broadcasting, journalism or other arts discipline is usually required.
- Several years of experience within the publishing, film production, broadcasting or theatre industry are usually required.

### 0513 Recreation, sports and fitness program and service directors

This unit group includes managers who plan, organize, direct, control and evaluate the operations of comprehensive recreational, sports and fitness programs and services, national or provincial sports governing agencies and professional athletic teams. They are employed by municipalities, community and private recreational and fitness organizations, sports governing agencies and professional athletic team organizations.

*Illustrative example(s)*
- director of recreation
- professional football team manager
- professional hockey team manager
- professional track and field team manager
- sports administration director - government
- sports association director
- sports federation director
- sports program director
- YMCA (Young Men's Christian Association) programs director

*Exclusion(s)*
- Coaches (see 5252 Coaches)
- Program leaders and instructors in recreation, sport and fitness (see 5254 Program leaders and instructors in recreation, sport and fitness)
- Recreation, sports and fitness policy researchers, consultants and program officers (see 4167 Recreation, sports and fitness policy researchers, consultants and program officers)
- Sports officials and referees (see 5253 Sports officials and referees)

*Main duties*

Managers and directors in this unit group perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of recreation, sports and fitness programs and services
- Provide technical and professional advice on recreation, sports and fitness matters
- Prepare budget estimates and develop policies and procedures to implement programs
- Manage the operations of a sports governing agency
- Organize and administer national and provincial training, coaching, officiating and other programs associated with a particular sport
- Manage the operations of a professional athletic team
- Recruit professional coaches and athletes
- Direct fundraising drives and arrange for sponsorships from public and private organizations
- Develop long range plans and negotiate business contracts.

*Employment requirements*

- A university degree in recreology, physical education, sports administration or a related field or A college diploma in recreation management or sports administration is usually required.
- Executive directors of sports governing agencies may be required to have coaching certification in a particular sport.
- Several years of experience in an occupation related to recreation and sports administration, consulting or programming are usually required.
- Some directors of recreation may be required to have a Municipal Recreation Director's Certificate.

## 06 Middle management occupations in retail and wholesale trade and customer services

This major group comprises middle management occupations in retail and wholesale trade and customer services. It includes corporate sales managers and retail and wholesale trade managers, and managers in restaurant and food service, accommodation service, and customer and personal services, not elsewhere classified.

### 060 Corporate sales managers

This minor group includes corporate sales managers. They are employed by commercial, industrial and wholesale and retail trade establishments.

### 0601 Corporate sales managers

Corporate sales managers plan, organize, direct, control and evaluate the activities of establishments and departments involved in commercial, industrial, institutional, e-business and wholesale and retail sales. They are employed by commercial, industrial and wholesale and retail trade establishments.

*Illustrative example(s)*

- corporate sales manager
- national accounts manager - sales
- regional sales manager
- trade expansion manager

*Exclusion(s)*

- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Retail and wholesale trade managers (see 0621 Retail and wholesale trade managers)
- Senior managers - trade, broadcasting and other services, n.e.c. (see 0015 Senior managers - trade, broadcasting and other services, n.e.c.)
- Supervisors of technical salespersons (see 6221 Technical sales specialists - wholesale trade)

*Main duties*

Corporate sales managers perform some or all of the following duties:

- Plan direct and evaluate the activities of sales departments in commercial, industrial, wholesale and retail and other establishments

- Organize regional and divisional sales operations
- Establish organizational policies and procedures in relation to sales
- Determine strategic planning related to new product lines
- Lead sales team in building relationships with business clients and manage negotiations of sales contracts
- Recruit, organize, train and manage staff
- May work with the marketing department to understand and communicate marketing messages to the field.

*Employment requirements*

- A university degree or college diploma in business or in a related field with a specialization in sales and Several years of experience as a sales representative or in a related occupation are usually required.

*Additional information*

- Progression to senior management positions is possible with experience.

## 062 Retail and wholesale trade managers

This minor group includes retail and wholesale trade managers. They are employed by retail and wholesale sales establishments; or they may own and operate their own stores.

### 0621 Retail and wholesale trade managers

Retail and wholesale trade managers plan, organize, direct, control and evaluate the operations of establishments that sell merchandise or services on a retail or wholesale basis. Retail and wholesale trade managers are employed by retail and wholesale sales establishments or they may own and operate their own store.

*Illustrative example(s)*

- antique dealer
- assistant manager - retail
- automobile repair shop manager
- bookstore manager
- car dealership manager
- cattle dealer
- clothing store manager
- department store manager
- pleasure boat dealer
- sporting goods store manager
- store manager - retail
- supermarket manager
- variety store manager

*Exclusion(s)*

- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Insurance, real estate and financial brokerage managers (see 0121 Insurance, real estate and financial brokerage managers)
- Restaurant and food service managers (see 0631 Restaurant and food service managers)
- Retail sales supervisors (see 6211 Retail sales supervisors)

*Main duties*

Retail and wholesale trade managers perform some or all of the following duties:

- Plan, direct and evaluate the operations of establishments engaged in wholesale and retail sales or of departments in such establishments
- Manage staff and assign duties
- Study market research and trends to determine consumer demand, potential sales volumes and effect of competitors' operations on sales

- Determine merchandise and services to be sold, and implement price and credit policies
- Source and negotiate with vendors when necessary to procure merchandise for resale
- Develop and implement marketing strategies
- Plan budgets, authorize expenditures, and monitor revenues
- Evaluate and improve customer service and respond to customer requests and issues
- Address staffing requirements, including the hiring, development and retention of staff

*Employment requirements*

- A university degree or college diploma in business administration or other field related to the product or service being sold may be required.
- Completion of secondary school is required.
- Several years of related retail or wholesale sales experience at increasing levels of responsibility are usually required

*Additional information*

- There is some mobility between managers in this unit group, depending on the product or service.

## 063 Managers in food service and accommodation

This minor group includes restaurant managers, food service managers and accommodation service managers. They are employed by food and beverage service establishments; and hotels, motels, resorts, student residences and other accommodation establishments; or they may be self-employed.

### 0631 Restaurant and food service managers

Restaurant and food service managers plan, organize, direct, control and evaluate the operations of restaurants, bars, cafeterias and other food and beverage services. They are employed in food and beverage service establishments, or they may be self-employed.

*Illustrative example(s)*

- banquet manager
- bar manager
- cafeteria manager
- catering service manager
- dining room manager
- food services manager
- hotel food and beverage service manager
- restaurant assistant manager
- restaurant manager
- restaurateur - food services

*Exclusion(s)*

- Dietitians and nutritionists (see 3132 Dietitians and nutritionists)
- Executive chefs (see 6321 Chefs)
- Food service supervisors (see 6311 Food service supervisors)
- Senior managers in food service (see 0015 Senior managers - trade, broadcasting and other services, n.e.c.)

*Main duties*

Restaurant and food service managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a restaurant, bar, cafeteria or other food or beverage service
- Determine type of services to be offered and implement operational procedures
- Recruit staff and oversee staff training
- Set staff work schedules and monitor staff performance
- Control inventory, monitor revenues and modify procedures and prices

- Resolve customer complaints and ensure health and safety regulations are followed
- Negotiate arrangements with suppliers for food and other supplies
- Negotiate arrangements with clients for catering or use of facilities for banquets or receptions.

*Employment requirements*
- Completion of a college or other program related to hospitality or food and beverage service management is usually required.
- Responsible beverage service certification is usually required for managers of establishments serving alcoholic beverages.
- Several years of experience in the food service sector, including supervisory experience, are required.

*Additional information*
- Progression to senior management in food service is possible with experience.

## 0632 Accommodation service managers

Accommodation service managers plan, organize, direct, control and evaluate the operations of an accommodation establishment or of a department within such an establishment. They are employed by hotels, motels, resorts, student residences and other accommodation establishments, or they may be self-employed.

*Illustrative example(s)*
- bed and breakfast operator
- front desk manager - accommodation services
- guest-house operator
- hotel assistant manager
- hotel director
- hotel manager
- motel manager
- reservations manager
- seasonal resort manager
- ski resort manager
- tourist home operator

*Exclusion(s)*
- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Executive housekeepers (see 6312 Executive housekeepers)
- Facility operation and maintenance managers (see 0714 Facility operation and maintenance managers)
- Restaurant and food service managers (see 0631 Restaurant and food service managers)
- Retail and wholesale trade managers (see 0621 Retail and wholesale trade managers)

*Main duties*

Accommodation service managers perform some or all of the following duties:
- Develop, implement and evaluate policies and procedures for the operation of the department or establishment
- Prepare budgets and monitor revenues and expenses
- Participate in the development of pricing and promotional strategies
- Negotiate with suppliers for the provision of materials and supplies
- Negotiate with clients for the use of facilities for conventions, banquets, receptions and other functions
- Recruit and supervise staff, oversee training and set work schedules
- Resolve customer complaints.

*Employment requirements*
- A university degree or college diploma in hotel management or other related discipline is usually required for managers employed by hotel chains or large accommodation establishments.

- Several years of experience within the accommodation industry are usually required and may substitute for formal educational requirements.

## 065 Managers in customer and personal services, n.e.c.

This minor group includes managers in customer and personal services not elsewhere classified. They are employed by hairdressing salons, dry cleaners, residential cleaning services and other establishments that provide customer and personal services not elsewhere classified; and by schools that provide non-vocational instruction in driving, languages, music, dance, art, cooking and fashion.

## 0651 Managers in customer and personal services, n.e.c.

This unit group includes managers of establishments that provide services not elsewhere classified, such as dry cleaning, hairdressing or residential cleaning. This group also includes managers of schools that provide non-vocational instruction in driving, languages, music, dance, art, cooking or fashion.

*Illustrative example(s)*
- barber shop manager
- car wash manager
- cooking school manager
- driving school manager
- dry cleaning service manager
- hairdressing salon manager
- pest control service manager
- residential cleaning service manager
- septic tank service manager
- spa manager
- window washing service manager

*Exclusion(s)*
- Accommodation service managers (see 0632 Accommodation service managers)
- Cleaning supervisors (see 6315 Cleaning supervisors)
- Executive housekeepers (see 6312 Executive housekeepers)
- Other business services managers (see 0125 Other business services managers)
- Retail and wholesale trade managers (see 0621 Retail and wholesale trade managers)
- Retail sales supervisors (see 6211 Retail sales supervisors)

*Main duties*

Managers in this unit group perform some or all of the following duties:
- Plan, organize, direct, control and evaluate the operations of an establishment providing services such as dry cleaning, hairdressing or residential cleaning, or a school providing non-vocational instruction in driving, languages, music, dance, art, cooking or fashion
- Establish or implement policies and procedures for staff
- Plan and control budget and inventory
- Respond to inquiries or complaints and resolve problems
- Manage contracts for advertising or marketing strategies
- Hire, train and supervise staff.

*Employment requirements*
- A college diploma or vocational certificate in the subject of instruction may be required.
- Completion of secondary school is usually required.
- One to three years of experience in the service being offered are usually required.

## 07-09 Middle management occupations in trades, transportation, production and utilities

This major group comprises middle management occupations in trades, transportation, production and utilities. It includes managers in construction, facility operation and maintenance, transportation, natural resources production, fishing, agriculture, horticulture, aquaculture, manufacturing and utilities.

### 071 Managers in construction and facility operation and maintenance

This minor group includes construction managers, home building managers, renovation managers, facility operations managers and maintenance managers. They are employed by residential, commercial, and industrial construction companies; construction departments of companies outside the construction industry; residential renovation companies; commercial, industrial, transportation, institutional, recreational, sports and other facilities; and maintenance and mechanical engineering departments of manufacturing and other industrial establishments; or they may own and operate their own businesses.

### 0711 Construction managers

Construction managers plan, organize, direct, control and evaluate the activities of a construction company or a construction department within a company, under the direction of a general manager or other senior manager. They are employed by residential, commercial and industrial construction companies and by construction departments of companies outside the construction industry.

*Illustrative example(s)*

- commercial construction manager
- construction manager
- construction project manager
- construction superintendent
- general contractor
- housing construction manager
- industrial construction manager
- pipeline construction manager
- residential construction manager

*Exclusion(s)*

- Home building and renovation managers (see 0712 Home building and renovation managers)
- Senior managers - construction, transportation, production and utilities (see 0016 Senior managers - construction, transportation, production and utilities)

*Main duties*

Construction managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate construction projects from start to finish according to schedule, specifications and budget
- Prepare and submit construction project budget estimates
- Plan and prepare construction schedules and milestones and monitor progress against established schedules
- Prepare contracts and negotiate revisions, changes and additions to contractual agreements with architects, consultants, clients, suppliers and subcontractors
- Develop and implement quality control programs
- Represent company on matters such as business services and union contracts negotiation
- Prepare progress reports and issue progress schedules to clients
- Direct the purchase of building materials and land acquisitions
- Hire and supervise the activities of subcontractors and subordinate staff.

*Employment requirements*

- A master's degree in project management may be required.
- A university degree in civil engineering or a college diploma in construction technology is usually required.

- Extensive experience in the construction industry may substitute for post-secondary education requirements.
- Professional engineering status or construction trade certification may be required by some employers.
- Several years of experience in the construction industry, including experience as a construction supervisor or field superintendent, are usually required.

*Additional information*
- Progression to senior management positions is possible with experience.

## 0712 Home building and renovation managers

Home building managers or builders own, operate and manage companies engaged in the construction of new residential homes. Home renovation managers or renovators own, operate and manage companies engaged in the renovation of existing residential homes.

*Illustrative example(s)*
- home builder
- home renovation contractor
- home renovator
- renovation contractor
- residential homes contractor

*Exclusion(s)*
- Construction managers (see 0711 Construction managers)
- Senior managers - construction, transportation, production and utilities (see 0016 Senior managers - construction, transportation, production and utilities)

*Main duties*

Home building and renovation managers perform some or all of the following duties:
- Plan, organize, direct, control and evaluate the activities of a residential home building or renovating company
- Prepare bids for home construction or renovation projects
- Consult with customers, architects and engineers regarding plans and specifications
- Select, hire and supervise trade subcontractors to do specialized work, such as plumbing, heating and electrical work
- Plan and prepare work schedules and co-ordinate the activities of subcontractors
- Inspect work performed by subcontractors to ensure quality and conformity with plans and specifications
- Prepare and maintain a directory of suppliers and trade subcontractors
- Develop and implement marketing and advertising strategies to promote company's products and services
- May perform carpentry or other trade work during home construction or renovation activities.

*Employment requirements*
- Extensive experience in the home construction industry, including experience as a general supervisor, is usually required for self-employment as a home builder or a home renovator.
- Leading in Energy and Environmental Design (LEED) certification may be an asset in bidding on and obtaining building and renovation projects.

*Additional information*
- Progression to senior management positions is possible with extensive experience and training in management.

## 0714 Facility operation and maintenance managers

Facility operation managers plan, organize, direct, control and evaluate the operations of commercial, transportation and recreational facilities and the included real estate. Facility operation managers are employed by a wide range of establishments, such as airports, harbours, canals, shopping centres, convention centres, warehouses and recreational facilities. Maintenance managers plan, organize, direct, control and evaluate the maintenance department within commercial, industrial, institutional, recreational and other facilities. Maintenance managers are employed by a wide range of establishments, such as office buildings, shopping centres, airports, harbours, warehouses, grain terminals, universities, schools and sports facilities, and by the maintenance and mechanical engineering departments of manufacturing and other industrial establishments.

*Illustrative example(s)*

- airport manager
- arena manager
- campus maintenance manager
- facilities maintenance head
- facility operations manager
- harbour master
- maintenance and service superintendent
- maintenance manager
- maintenance support services chief
- mechanical services superintendent
- plant maintenance superintendent
- recreation facility manager
- shopping centre manager
- warehouse manager

*Exclusion(s)*

- Administrative services managers (see 011 Administrative services managers)
- Building superintendents (see 6733 Janitors, caretakers and building superintendents)
- Contractors and supervisors, mechanic trades (see 7301 Contractors and supervisors, mechanic trades)
- Production operations managers (see 0911 Manufacturing managers)
- Property administrators (see 1224 Property administrators)
- Transportation operations and freight traffic managers (see 0731 Managers in transportation)

*Main duties*

Facility operation managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of commercial, transportation and recreational facilities and the included real estate
- Oversee the leasing of space in the facility and the included real estate and the development of marketing strategies
- Plan, organize and direct administrative services such as signage, cleaning, maintenance, parking, safety inspections, security and snow removal
- Plan, organize, direct, control and evaluate construction projects to modify commercial, transportation and recreational facilities and real estate
- Oversee the installation, maintenance and repair of real estate infrastructures including machinery, equipment and electrical and mechanical systems
- Plan and manage the facility's operations budget
- Prepare or oversee the preparation of reports and statistics related to areas of responsibility
- Hire and oversee training and supervision of staff.

Maintenance managers perform some or all of the following duties:

- Direct the maintenance and repair of an establishment's machinery, equipment and electrical and mechanical systems
- Develop and implement schedules and procedures for safety inspections and preventive maintenance programs
- Co-ordinate cleaning, snow removal and landscaping operations
- Administer contracts for the provision of supplies and services
- Plan and manage a facility's maintenance budget
- Hire and oversee training and supervision of staff.

*Employment requirements*

- Facility operation managers require completion of a college or university program in business administration or in a discipline related to facility operation and maintenance or An equivalent combination of technical training and experience in administration or maintenance.
- Maintenance managers require completion of a college or university program in electrical or mechanical engineering or in another discipline related to building maintenance or An equivalent combination of technical training and experience in building maintenance.
- Several years of supervisory experience in facility operations or maintenance are usually required.

## 073 Managers in transportation

This minor group includes transportation operations managers and transportation freight traffic managers. They are employed by transportation, freight forwarding and shipping companies and by transportation departments of companies in the retail and manufacturing sectors and utilities.

### 0731 Managers in transportation

Managers in transportation operations plan, organize, direct, control and evaluate the operations of transportation companies such as railways, airlines, bus lines, municipal transit systems, shipping lines and trucking companies, under the direction of a general manager or other senior manager. Managers in transportation freight traffic plan, organize, direct, control and evaluate companies or departments responsible for the transportation and movement of goods, under the direction of a general manager or other senior manager. They are employed by transportation, freight forwarding and shipping companies and by transportation departments of companies in retail and manufacturing sectors and utilities.

*Inclusion(s)*

- cruise ship line manager

*Illustrative example(s)*

- bus company manager
- distribution manager - logistics
- flight operations manager
- freight forwarding manager
- marine superintendent
- rail operations superintendent
- railway freight manager
- traffic manager - transportation
- transport department manager
- transportation manager
- urban transit system manager

*Exclusion(s)*

- Airport managers, harbour masters and other managers of transportation facilities (see 0714 Facility operation and maintenance managers)
- Senior transportation managers (see 0016 Senior managers - construction, transportation, production and utilities)

*Main duties*

Managers in transportation operations perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a transportation company
- Set operations policies and standards, including determination of safety procedures for the handling of dangerous goods, and ensure compliance with transport regulations
- Oversee the dispatch, maintenance and service of vehicles, vessels or aircraft
- Control the company or departmental budget, including acquisitions
- Monitor company's or department's performance, prepare reports for senior management, and plan for changes to schedules and policies

- Recruit personnel and oversee their training.

Managers in transportation freight traffic perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the activities of companies or departments responsible for co-ordinating, arranging and monitoring the transportation and movement of goods
- Arrange for shipping documentation and oversee the scheduling and dispatching of goods and the tracking and tracing of goods in transit
- Set performance goals, oversee the setting of transportation service rates and monitor revenue
- Develop plans and procedures for the transportation and storage of goods
- Negotiate with carriers, warehouse operators and insurance company representatives for services and preferential rates
- Control the departmental budget
- Recruit personnel and oversee their training.

*Employment requirements*

- A bachelor's degree in business administration or engineering is usually required.
- A college diploma or university degree in business or transportation administration may be required.
- Certification as an operator of a particular mode of transportation, such as commercial pilot, vessel master or truck driver, is usually required.
- Completion of secondary school is required.
- Extensive experience as a supervisor and operator in a particular transport mode, such as a pilot, train engineer, vessel master or truck driver, may substitute for formal education.
- Managers in transportation freight traffic
- Managers in transportation operations
- Several years of clerical, operational or administrative experience related to freight traffic are required.
- Several years of experience in transportation operations are usually required, including supervisory experience.

*Additional information*

- There is little or no mobility between managers in transportation operations and managers in transportation freight traffic.
- There is little or no mobility between transportation managers of land, sea and air transportation operations.

## 081 Managers in natural resources production and fishing

This minor group includes natural resources production managers and fishing managers. They are employed by establishments in forestry and logging, mining and quarrying, oil and gas drilling, production and servicing operations, and commercial fishing.

### 0811 Managers in natural resources production and fishing

This unit group includes managers who plan, organize, direct, control and evaluate the operations of establishments in forestry and logging, mining and quarrying, oil and gas drilling, production and servicing operations, and commercial fishing.

*Illustrative example(s)*

- director of mining
- drilling operations manager
- fishing operations manager
- forestry operations manager
- gas field operations manager
- mine manager
- oil well servicing manager
- quarry manager
- shore captain - fishing

*Exclusion(s)*

- Contractors and supervisors, oil and gas drilling and services (see 8222 Contractors and supervisors, oil and gas drilling and services)
- Directors of research in primary industry (see 0212 Architecture and science managers)
- Fishing masters and officers (see 8261 Fishing masters and officers)
- Managers in agriculture (see 0821 Managers in agriculture)
- Senior managers - construction, transportation, production and utilities (see 0016 Senior managers - construction, transportation, production and utilities)
- Supervisors, logging and forestry (see 8211 Supervisors, logging and forestry)
- Supervisors, mining and quarrying (see 8221 Supervisors, mining and quarrying)

*Main duties*

Managers in natural resources production and fishing perform some or all of the following duties:

- Oversee and analyze operations in forestry, logging, mining, quarrying, or oil and gas operations or in services to logging, mining and oil and gas industries, or in commercial fishing
- Recommend operational changes to senior management when necessary to ensure that production quotas and procedures are met
- Prepare production reports for review by senior management
- Confer with other managers to set production quotas, to plan extraction sites and to develop policies for the removal of raw materials
- Evaluate efficiency of production sites to determine adequacy of personnel, equipment and technologies used, and make changes to work schedule or equipment when necessary
- Ensure adherence to safety regulations
- Hire personnel and oversee training needs of staff
- May direct peripheral activities such as the construction of access roads or temporary living quarters.

*Employment requirements*

- Forestry managers usually require a bachelor's degree in forestry science or forest engineering.
- Mining and quarrying managers usually require a bachelor's degree in mining engineering or earth sciences.
- Oil and gas managers usually require a bachelor's degree in geology, earth sciences or petroleum engineering.
- Several years of experience in a supervisory occupation in the particular industry are usually required and may substitute for formal education requirements.

*Additional information*

- Progression to senior management positions in the respective industries is possible with experience.

## 082 Managers in agriculture, horticulture and aquaculture

This minor group includes agriculture managers, horticulture managers and aquaculture managers. They are employed by farms, ranches and orchards; nurseries and greenhouses; and public and private fish hatcheries and commercial aquatic farms; or they may own and operate their own establishments; or they may be self-employed.

### 0821 Managers in agriculture

Managers in agriculture plan, organize, direct, control and evaluate the operations and functions of farms. They are responsible for growing crops, raising and breeding livestock, poultry and other animals and marketing farm products. Managers in this unit group usually own and operate their own establishment.

*Illustrative example(s)*

- apiarist
- apple grower
- chicken farmer
- dairy farmer
- domestic animal breeder

- fruit farmer
- hog breeder
- horse breeder
- maple syrup producer
- market gardener
- potato farmer
- rancher
- seed grower
- sod farmer
- vegetable grower
- vineyard manager
- viticulturist
- wheat farmer

*Exclusion(s)*
- Agricultural service contractors, farm supervisors and specialized livestock workers (see 8252 Agricultural service contractors, farm supervisors and specialized livestock workers)
- Managers in horticulture (see 0822 Managers in horticulture)

*Main duties*

Managers in agriculture perform some or all the following duties:
- Manage the overall operations of a farm, ranch or orchard
- Determine the amount and kinds of crops to be grown and livestock to be raised
- Organize and co-ordinate planting, cultivating and crop harvesting activities; raising and breeding of livestock and poultry
- Hire and manage farm personnel
- Establish a marketing program
- Develop and keep financial and production records
- Purchase farm machinery, livestock, seed, feed and other supplies
- Maintain farm machinery, equipment and buildings
- Perform farming duties.
- Managers in agriculture manage farms of various sizes which may specialize in particular crops such as wheat, apples or potatoes or raise particular livestock such as beef cattle, swine or poultry.

*Employment requirements*
- A university degree or college diploma in agricultural management or other field related to crop or livestock production may be required.
- Extensive farming experience, obtained as a farm supervisor or specialized crop or livestock worker or by working on a farm, is usually required.

### 0822 Managers in horticulture

Managers in horticulture plan, organize, direct and control the activities of nursery and greenhouse staff who grow and market trees, shrubs, flowers and plants.

*Illustrative example(s)*
- Christmas tree farm operator
- flower grower
- greenhouse manager
- greenhouse operator
- nursery manager
- nursery operator
- plant grower - nursery

*Exclusion(s)*
- Nursery and greenhouse workers (see 8432 Nursery and greenhouse workers)

- Turf farmer (see 0821 Managers in agriculture)

*Main duties*

Managers in horticulture perform some or all of the following duties:

- Plan, organize, direct and control the operations of nurseries and greenhouses
- Establish the environmental conditions required to grow trees, shrubs, flowers and plants, and design planting and care schedules accordingly
- Determine type and quantity of stock to grow
- Supervise staff in planting, transplanting, feeding and spraying stock
- Identify and control insect, disease and weed problems
- Develop marketing plans
- Provide information to customers on gardening and on the care of trees, shrubs, flowers, plants and lawns
- Order materials such as fertilizer, garden and lawn care equipment, and other nursery and greenhouse related accessories
- Hire and manage staff, oversee training and set work schedules
- Maintain records on stock, finances and personnel.

*Employment requirements*

- Completion of a college program in horticulture is usually required.
- Experience as a nursery or greenhouse supervisor is required.

## 0823 Managers in aquaculture

Managers in aquaculture manage operations of facilities which cultivate and harvest fish, shellfish or marine plants for replenishment of wildlife stocks or for commercial sale. They are employed by public or private fish hatcheries and commercial aquatic farms, or they may be self-employed.

*Illustrative example(s)*

- aquaculture manager
- aquaculture operator
- fish farm operator
- fish farmer
- fish hatchery manager
- fish hatchery operator
- mussel grower
- oyster grower
- salmon grower
- trout farmer

*Exclusion(s)*

- Aquaculture support workers (see 8613 Aquaculture and marine harvest labourers)
- Aquaculture technicians (see 2221 Biological technologists and technicians)

*Main duties*

Managers in aquaculture perform some or all of the following duties:

- Manage the overall operation of a fish hatchery, fish farm or other aquatic farm
- Identify requirements of the species and select and oversee preparation of site for species cultivation
- Co-ordinate selection and maintenance of brood stock
- Determine food requirements and structure feeding regimes
- Monitor environment and maintain optimum conditions
- Conduct and supervise stock examination to identify disease or parasites, and apply prescribed medicinal substances to control and prevent infection
- Operate and maintain cultivating and harvesting equipment
- Collect and record growth and production data
- Manage and train aquaculture and fish hatchery support workers and supervise technicians and technologists

- Maintain financial records and establish market strategies, inventory and quality control methods
- May scuba dive to inspect sea farm operations
- May design and construct pens, floating stations and collector strings or fences for sea farms.

*Employment requirements*

- A college diploma in aquaculture or a related field or Several years of experience in fishing or aquaculture operations are usually required.
- A commercial aquaculture or fish hatchery licence, permit or lease is required for self-employed aquaculture managers.
- Completion of secondary school is usually required.

## 091 Managers in manufacturing and utilities

This minor group includes manufacturing managers and utilities managers and directors. They are employed by manufacturing companies and in public and private sector utilities and heating fuel distribution companies.

### 0911 Manufacturing managers

Manufacturing managers plan, organize, direct, control and evaluate the operations of a manufacturing establishment or of a production department within a manufacturing establishment, under the direction of a general manager or other senior manager. They are employed by manufacturing companies.

*Inclusion(s)*

- brewmaster

*Illustrative example(s)*

- automobile production manager
- clothing factory manager
- dairy plant manager
- distillery manager
- factory superintendent
- foundry manager
- manufacturing manager
- manufacturing operations manager
- manufacturing plant manager
- printing plant manager
- production manager - manufacturing
- textile mill manager
- tire plant manager

*Exclusion(s)*

- Facility operation and maintenance managers (see 0714 Facility operation and maintenance managers)
- Managers in transportation (see 0731 Managers in transportation)
- Senior managers - construction, transportation, production and utilities (see 0016 Senior managers - construction, transportation, production and utilities)
- Utilities managers (see 0912 Utilities managers)

*Main duties*

Manufacturing managers perform some or all of the following duties:

- Plan, organize, direct, control and evaluate the operations of a manufacturing establishment or the operations or production department of a manufacturing establishment
- Develop and implement plans to efficiently use materials, labour and equipment to meet production targets
- Plan and manage the establishment of departmental budget
- Develop production schedules and maintain an inventory of raw materials and finished products
- Plan and implement changes to machinery and equipment, production systems and methods of work
- Direct quality control inspection system and develop production reporting procedures

- Develop equipment maintenance schedules and recommend the replacement of machines
- Hire, supervise and train or oversee training of employees in the use of new equipment or production techniques.

*Employment requirements*

- Completion of a college or university program in engineering or business administration is usually required.
- Five to ten years of supervisory experience in manufacturing are required.

*Additional information*

- Progression to senior management positions is possible with experience.

### 0912 Utilities managers

This unit group includes managers who plan, organize, direct, control and evaluate the operations of utility companies or services of heating fuel distribution companies. The services provided include treatment of water and waste, distribution of water, electricity, natural gas and heating oil to residential, commercial and industrial consumers, waste disposal and waste recycling. Utilities managers are employed in public and private sector utilities and in heating fuel distribution companies.

*Illustrative example(s)*

- director of waste management
- director of water pollution control
- distribution systems director - utilities
- electric generating plant manager
- electric power plant manager
- electrical power transmission operations director
- gas supply operations manager
- liquid waste facility manager
- refined petroleum products distribution manager
- sewage treatment plant manager
- water filtration plant manager
- water supply director

*Exclusion(s)*

- Facility operation and maintenance managers (see 0714 Facility operation and maintenance managers)
- Senior managers - construction, transportation, production and utilities (see 0016 Senior managers - construction, transportation, production and utilities)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Water supply managers manage water filtration, purification processes and pumping operations, schedule and oversee the maintenance of plant equipment and prepare reports on water supply and water quality.
- Electrical power distribution managers manage the operations of electrical power distribution systems including generating stations, transmission stations and distribution networks. They may also plan and direct the distribution activities of a municipal electrical power establishment.
- Natural gas supply managers manage the delivery of gas to consumers, monitor supply inventories and control the recording of injections and withdrawals.
- Petroleum product distribution managers plan and direct the distribution of heating oil products to retail distributors and regional storage sites.
- Water pollution control managers manage the operations of a sewage treatment plant, schedule and direct maintenance of plant equipment, and prepare reports on water quality.
- Waste systems managers manage solid or liquid waste collection and disposal systems, train drivers in how to handle waste and ensure safe operation of disposal facilities.

*Employment requirements*

- A bachelor's degree or college diploma in an appropriate discipline is required. For example, electrical engineering is required for managers of transmission lines, and water resource technology for water supply managers.
- A professional engineer certification is usually required for managers of utility operations involved in the transmission and distribution of electrical power, and natural gas and heating oil.
- Several years of experience as a supervisor in a related utilities operations department are required.

*Additional information*

- Progression to senior management positions in the utility industry is possible with experience.

## 1 Business, finance and administration occupations

Occupations in this category include financial and business services, administration and clerical supervision and support services. Some occupations in this category are unique to the financial and business services sectors; however, most are found in all industries. The professional occupations in this area such as accountants, investment brokers and human resources specialists are usually supplied from educational programs specific to the profession or occupation. Some administrative and business occupations are supplied from experienced workers in related clerical occupations.

## 11 Professional occupations in business and finance

This major group comprises professional occupations in business and finance. It includes financial auditors, accountants, investment professionals, human resources professionals and business service professionals.

## 111 Auditors, accountants and investment professionals

This minor group includes financial auditors, accountants, financial and investment analysts, securities agents, investment dealers, brokers and other financial officers. They are employed by auditing and accounting firms; banks and insurance, underwriting, investment, fund management and trust companies; utility and manufacturing companies; stock brokerage firms, stock and commodity exchanges and other establishments in the securities industry; and throughout the public and private sectors; or they may be self-employed.

## 1111 Financial auditors and accountants

Financial auditors examine and analyze the accounting and financial records of individuals and establishments to ensure accuracy and compliance with established accounting standards and procedures. Accountants plan, organize and administer accounting systems for individuals and establishments. Financial auditors and accountants are employed by auditing and accounting firms throughout the private and public sectors, or they may be self-employed. Articling students in accounting firms are included in this unit group.

*Illustrative example(s)*

- accountant
- chief accountant
- financial auditor
- income tax expert
- industrial accountant
- internal auditor

*Exclusion(s)*

- Accounting technicians and bookkeepers (see 1311 Accounting technicians and bookkeepers)
- Financial managers (see 0111 Financial managers)
- Program or other non-financial auditors (see 416 Policy and program researchers, consultants and officers)

*Main duties*

Financial auditors perform some or all of the following duties:

- Examine and analyze journal and ledger entries, bank statements, inventories, expenditures, tax returns and other accounting and financial records, documents and systems of individuals, departments within organizations, businesses or other establishments to ensure financial recording accuracy and compliance with established accounting standards, procedures and internal controls
- Prepare detailed reports on audit findings and make recommendations to improve individual or establishment's accounting and management practices
- Conduct field audits of businesses to ensure compliance with provisions of the Income Tax Act, Canadian Business Corporations Act or other statutory requirements
- May supervise other auditors or professionals in charge of accounting within client's establishment.

Accountants perform some or all of the following duties:

- Plan, set up and administer accounting systems and prepare financial information for individuals, departments within organizations, businesses and other establishments
- Examine accounting records and prepare financial statements and reports
- Develop and maintain cost finding, reporting and internal control procedures
- Examine financial accounts and records and prepare income tax returns from accounting records
- Analyze financial statements and reports and provide financial, business and tax advice
- May act as a trustee in bankruptcy proceedings
- May supervise and train articling students, other accountants or administrative technicians.

*Employment requirements*

- Auditors may require recognition by the Institute of Internal Auditors.
- Auditors require education, training and recognition as indicated for Chartered professional accountants, chartered accountants (CPA, CA), Chartered professional accountants, certified general accountants (CPA, CGA) or Chartered professional accountants, certified management accountants (CPA, CMA) and Some experience as an accountant.
- Chartered professional accountants, certified general accountants (CPA, CGA) and Chartered professional accountants, certified management accountants (CPA, CMA) require a university degree and Completion of an approved training program and several years of on-the-job training and Certification with a regulatory body is required in all provinces and territories.
- Chartered professional accountants, chartered accountants (CPA, CA) require a university degree and Completion of a professional training program approved by a provincial Institute of Chartered Accountants and, depending on the province, either two years or 30 months of on-the-job training and Membership in a provincial Institute of Chartered Accountants upon successful completion of the Uniform Evaluation (UFE).
- Licensing by the provincial or territorial governing body is usually required for accountants and auditors practising public accounting.
- To act as a trustee in bankruptcy proceedings, auditors and accountants must hold a licence as a trustee in bankruptcy.

*Additional information*

- Progression to auditing or accounting management positions is possible with experience.
- There is limited mobility among the three professional accounting designations: Chartered professional accountant, chartered accountant (CPA, CA), Chartered professional accountant, certified general accountant (CPA, CGA), and Chartered professional accou

## 1112 Financial and investment analysts

Financial and investment analysts collect and analyze financial information such as economic forecasts, trading volumes and the movement of capital, financial backgrounds of companies, historical performances and future trends of stocks, bonds and other investment instruments to provide financial and investment or financing advice for their company or their company's clients. Their studies and evaluations cover areas such as takeover bids, private placements, mergers or acquisitions. Financial analysts are employed by a wide range of establishments throughout the private and public sector, such as banks, brokerage houses, insurance companies, investment companies, manufacturing firms, trust companies, utility companies and underwriting firms. Investment analysts are employed primarily by brokerage houses and fund management companies.

*Illustrative example(s)*
- chartered financial analyst
- financial analyst
- financial services research associate
- investment analyst
- money market analyst
- portfolio manager

*Exclusion(s)*
- Economic development officers (see 4163 Business development officers and marketing researchers and consultants)
- Economists (see 4162 Economists and economic policy researchers and analysts)
- Financial planners (see 1114 Other financial officers)
- Securities agents, investment dealers and brokers (see 1113 Securities agents, investment dealers and brokers)

*Main duties*

Financial analysts perform some or all of the following duties:
- Evaluate financial risks, prepare financial forecasts, financing scenarios and other documents concerning capital management, and write reports and recommendations
- Plan short- and long-term cash flows and assess financial performance
- Analyze investment projects
- Advise on and participate in the financial aspects of contracts and calls for tender
- Follow up on financing projects with financial backers
- Develop, implement and use tools for managing and analyzing financial portfolio
- Prepare a regular risk profile for debt portfolios
- Assist in preparing operating and investment budgets.

Investment analysts perform some or all of the following duties:
- Collect financial and investment information about companies, stocks, bonds and other investments using daily stock and bond reports, economic forecasts, trading volumes, financial periodicals, securities manuals, company financial statements and other financial reports and publications
- Examine and analyze financial and investment information collected, including profiles of companies, stock and bond prices, yields and future trends and other investment information
- Provide investment advice and recommendations to clients, senior company officials, pension fund managers, securities agents and associates
- Prepare company, industry and economic outlooks, analytical reports, briefing notes and correspondence.

*Employment requirements*
- A bachelor's degree in commerce, business administration or economics and On-the-job training and industry courses and programs are usually required.
- A master's degree in business administration (MBA) (concentration in finance) or in finance may be required.
- The Chartered Financial Analyst (CFA) designation, available through a program conducted by the Institute of Chartered Financial Analysts in the United States, may be required by some employers.

*Additional information*
- Progression to management positions, such as securities manager, is possible with experience.

## 1113 Securities agents, investment dealers and brokers

Securities agents and investment dealers buy and sell stocks, bonds, treasury bills, mutual funds and other securities for individual investors, pension fund managers, banks, trust companies, insurance firms and other establishments. Brokers buy and sell stocks, bonds, commodity futures, foreign currencies and other securities at stock exchanges on behalf of investment dealers. They are employed by investment companies, stock brokerage firms, stock and commodity exchanges and other establishments in the securities industry.

*Illustrative example(s)*

- bond dealer
- broker
- commodity broker
- discount broker
- floor trader - commodity exchange
- foreign exchange trader
- investment dealer
- mutual fund broker
- mutual fund sales representative
- registered investment representative
- registered representatives supervisor
- securities agent
- securities sales agent
- securities trader
- stockbroker

*Exclusion(s)*

- Financial and investment analysts (see 1112 Financial and investment analysts)
- Financial brokerage managers (see 0121 Insurance, real estate and financial brokerage managers)
- Other financial officers (see 1114 Other financial officers)

*Main duties*

Securities agents and investment dealers perform some or all of the following duties:

- Develop long-term relationships with their clients by preparing investment strategies to help them achieve their financial goals, offering advice and information on various investments to guide them in managing their portfolios
- Review financial periodicals, stock and bond reports, business publications and other material, and develop a network within the financial industry to gather relevant information and identify potential investments for clients
- Carry out investment orders by buying and selling stocks, bonds, treasury bills, mutual funds and other securities for individual investors, pension fund managers or companies such as banks, trust companies and insurance firms
- Monitor clients' investment portfolios and ensure that investment transactions are carried out according to industry regulations.

Brokers perform some or all of the following duties:

- Buy and sell stocks, bonds, commodity futures, foreign currencies and other securities at stock exchanges on behalf of investment dealers
- Develop trading strategies by reviewing investment information and monitoring market conditions from the exchange floor and through contact with trading departments of other investment firms, pension fund managers and investment company financial analysts
- Make bids and offers to buy and sell securities and complete details of sales on exchange trade tickets
- Prepare reviews of portfolios' positions.

*Employment requirements*

- A bachelor's or master's degree in economics, business or other discipline is usually required.
- Licensure by the provincial securities commission in the province of employment is required for securities agents, investment dealers and brokers.
- Securities sales representatives and brokers require completion of industry investment and sales training programs and completion of the Canadian Securities course and the Registered Representative Manual Exam offered by the Canadian Securities Institute.
- Specialized courses are also available for securities sales representatives and brokers who want to trade in specific investment products such as securities options and futures contracts.

*Additional information*

- Progression to related management positions is possible with experience.

## 1114 Other financial officers

This unit group includes professional occupations in finance not elsewhere classified such as financial planners, financial examiners and inspectors, financial investigators, financial underwriters, mortgage brokers and trust officers. They are employed by banks, trust companies, investment firms and governments, or they may be self-employed.

*Illustrative example(s)*

- account manager
- credit adjudicator
- credit unions examiner
- estate and trust administrator
- financial institutions inspector
- financial investigator
- financial planner
- financial underwriter
- mortgage broker
- trust officer

*Exclusion(s)*

- Economic development officers (see 4163 Business development officers and marketing researchers and consultants)
- Economists (see 4162 Economists and economic policy researchers and analysts)
- Financial and investment analysts (see 1112 Financial and investment analysts)
- Managers in financial and business services (see 012 Managers in financial and business services)
- Securities agents, investment dealers and brokers (see 1113 Securities agents, investment dealers and brokers)

*Main duties*

Financial planners perform some or all of the following duties:

- Develop personal financial plans for clients covering cash management, finances, insurance coverage, investments, retirement and estate planning, taxes and legal matters
- Analyze clients' financial records, set goals and develop a financial strategy
- Advise clients on implementing the financial plan to help them achieve their goals
- May also arrange for the purchase and sale of financial products and investments depending on the licence held, and monitor the portfolio to ensure its quality and profitability
- May help to expand business and attract new clients.

Financial examiners and inspectors perform some or all of the following duties:

- Review and examine banks, trust companies, credit unions, caisses populaires, credit companies, real estate companies, insurance companies, pension funds, securities brokers and other financial services and institutions to ensure compliance with governing legislation and regulations.

Financial investigators perform some or all of the following duties:

- Investigate possible unethical conduct or breaches of securities or commodity futures laws by persons or companies that trade in securities and commodity futures or that provide related financial services.

Financial underwriters perform some or all of the following duties:

- Underwrite new issues of stocks and bonds
- Negotiate with corporations and governments to determine the type and terms of new securities issued and prepare offering prospectuses.

Trust officers perform some or all of the following duties:

- Administer estate, personal, charitable, corporate and other types of trusts
- Direct trust account investments, receive and record investment income and disburse trust funds.

Mortgage brokers perform some or all of the following duties:

- Meet with clients to obtain information about income, liabilities and assets, and type, price and condition of property to be mortgaged

- Negotiate mortgage loans with lenders or lending institutions on behalf of clients.

*Employment requirements*

- A bachelor's degree in business administration, commerce, economics or a related field is usually required.
- Certification as a Financial Planner is required in Quebec.
- Financial examiners and inspectors may require a recognized accounting designation.
- Financial planners who sell regulated financial products and investments, such as annuities, RRSPs and life insurance, are required to be licensed by the appropriate governing body.
- Mortgage brokers require a real estate licence in Quebec and a mortgage broker licence in Newfoundland and Labrador, Nova Scotia, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.
- The designation Certified Financial Planner, awarded by the Financial Planners Standards Council of Canada, may be required.
- Various training programs and courses are offered by financial institutes and organizations, such as the Canadian Securities Institute, Institute of Canadian Bankers, Institute of Chartered Financial Analysts, Investment Funds Institute, Canadian Institute of Financial Planning, and Trust Companies Institute of Canada, and may be required by employers.

*Additional information*

- Progression to financial management positions is possible with experience.
- While these kinds of positions require a high degree of training and qualifications, persons who occupy them must continually update their skills and pursue professional development.

## 112 Human resources and business service professionals

This minor group includes human resources professionals, and those in professional occupations in business management consulting, advertising, marketing and public relations. They are employed by consulting firms, advertising agencies, corporations, associations, social agencies, museums, galleries, public interest groups and cultural and other organizations; and throughout the public and private sectors; or they may be self-employed.

### 1121 Human resources professionals

Human resources professionals develop, implement and evaluate human resources and labour relations policies, programs and procedures and advise employers and employees on human resources matters. Human resources professionals are employed throughout the private and public sectors, or they may be self-employed.

*Inclusion(s)*

- employment adviser - human resources
- staff training and development officer

*Illustrative example(s)*

- classification officer - human resources
- classification specialist
- compensation research analyst
- conciliator
- employee relations officer
- employment equity officer
- human resources consultant
- human resources research officer
- job analyst
- labour organization business agent
- labour relations officer
- mediator
- union representative
- wage analyst

*Exclusion(s)*

- Human resources and recruitment officers (see 1223 Human resources and recruitment officers)
- Human resources managers (see 0112 Human resources managers)
- Personnel clerks (see 1415 Personnel clerks)
- Professional occupations in business management consulting (see 1122 Professional occupations in business management consulting)
- Training officers and instructors (see 4021 College and other vocational instructors)

*Main duties*

Human resources professionals perform some or all of the following duties:

- Plan, develop, implement and evaluate human resources and labour relations strategies including policies, programs and procedures to address an organization's human resource requirements
- Advise employers and employees on the interpretation of human resources policies, compensation and benefit programs and collective agreements
- Negotiate collective agreements on behalf of employers or workers, mediate labour disputes and grievances and provide advice on employee and labour relations
- Research and prepare occupational classifications, job descriptions, salary scales and competency appraisal measures and systems
- Plan and administer staffing, total compensation, training and career development, employee assistance, employment equity and affirmative action programs
- Manage programs and maintain human resources information and related records systems
- Hire and oversee training of staff
- Co-ordinate employee performance appraisal programs
- Research employee benefit and health and safety practices and recommend changes or modifications to existing policies.

*Employment requirements*

- A university degree or college diploma in human resources management or a related field, such as business administration, industrial relations, commerce or psychology or Completion of a professional development program in human resources administration is required.
- Some employers may require human resources professionals to hold a Certified Human Resources Professional (CHRP) designation.

*Additional information*

- Progression to management positions is possible with experience.

## 1122 Professional occupations in business management consulting

Professionals in this unit group provide services to management such as analyzing the structure, operations, managerial methods or functions of an organization in order to propose, plan and implement improvements. They are employed by management consulting firms and throughout the public and private sectors or are self-employed.

*Illustrative example(s)*

- business management consultant
- business methods analyst
- health information management consultant
- ISO consultant
- management analyst
- operations management senior consultant
- organization and methods researcher
- organizational analysis consultant
- organizational analyst
- records management specialist

*Exclusion(s)*

- Business development officers and marketing researchers and consultants (see 4163 Business development officers and marketing researchers and consultants)
- Economists and economic policy researchers and analysts (see 4162 Economists and economic policy researchers and analysts)
- Engineering inspectors and regulatory officers (see 2262 Engineering inspectors and regulatory officers)
- Financial and investment analysts (see 1112 Financial and investment analysts)
- Financial auditors and accountants (see 1111 Financial auditors and accountants)
- Health information management occupations (see 1252 Health information management occupations)
- Industrial and manufacturing engineers (see 2141 Industrial and manufacturing engineers)
- Other financial officers (see 1114 Other financial officers)
- Records management technicians (see 1253 Records management technicians)

*Main duties*

Management consultants perform some or all of the following duties:

- Analyze and provide advice on the managerial methods and organization of a public or private sector establishment
- Conduct research to determine efficiency and effectiveness of managerial policies and programs
- Conduct assessments and propose improvements to methods, systems and procedures in areas such as operations, human resources, records management and communications
- Conduct quality audits and develop quality management and quality assurance standards for ISO (International Organization for Standardization) registration
- Provide guidance and support to business on regulatory policies and procedures; ensure internal compliance with regulatory requirements; and prepare submissions and filings with regulatory bodies
- Plan the reorganization of the operations of an establishment
- May supervise contracted researchers or clerical staff.

*Employment requirements*

- A bachelor's degree or college diploma in business administration, commerce or a related discipline is usually required.
- A graduate degree in business administration may be required.
- Certification as a quality auditor may be required for some occupations in this unit group.
- Occupations in health information management consulting may require certification by the Canadian Health Information Management Association (CHIMA).
- Some establishments may require management consultants to be certified by a provincial management consulting association.

*Additional information*

- Progression to senior and managerial positions is possible with experience.

## 1123 Professional occupations in advertising, marketing and public relations

This unit group includes specialists in advertising, marketing and public relations who analyse, develop and implement communication and promotion strategies and information programs, analyse advertising needs and develop appropriate advertising and marketing plans, publicize activities and events, and maintain media relations on behalf of businesses, governments and other organizations, and for performers, athletes, writers and other talented individuals. They are employed by consulting firms, advertising agencies, corporations, associations, government, social agencies, museums, galleries, public interest groups, and cultural and other organizations, or they may be self-employed. Agents such as entertainment, literary and sports agents are included in this unit group.

*Inclusion(s)*

- fundraiser
- information consultant
- information service co-ordinator

*Illustrative example(s)*

- advertising consultant
- communications officer
- communications specialist
- event marketing specialist
- fundraising consultant
- information officer
- literary agent
- media co-ordinator
- media relations officer
- museum educator
- performers agent
- press secretary
- public affairs officer
- public relations consultant
- public relations officer
- publicist
- publicity agent

*Exclusion(s)*

- Authors and writers (see 5121 Authors and writers)
- Conference and event planners (see 1226 Conference and event planners)
- Marketing consultants (see 4163 Business development officers and marketing researchers and consultants)
- Public relations managers (see 0124 Advertising, marketing and public relations managers)

*Main duties*

Specialists in advertising, marketing and public relations perform some or all of the following duties:

- Assess characteristics of products or services to be promoted and advise on the advertising needs of an establishment
- Advise clients on advertising or sales promotion strategies
- Develop and implement advertising campaigns appropriate for print or electronic media
- Gather, research and prepare communications material for internal and external audiences
- Develop, implement and evaluate communications strategies and programs designed to inform clients, employees and the general public of initiatives and policies of businesses, governments and other organizations
- Conduct public opinion and attitude surveys to identify the interests and concerns of key groups served by their organization
- Prepare or oversee preparation of reports, briefs, bibliographies, speeches, presentations, Web sites and press releases
- Develop and organize workshops, meetings, ceremonies and other events for publicity, fundraising and information purposes
- Prepare and deliver educational and publicity programs and informational materials to increase awareness of museums, galleries and other tourist attractions
- Initiate and maintain contact with the media
- Arrange interviews and news conferences
- Act as spokesperson for an organization and answer written and oral inquiries
- Co-ordinate special publicity events and promotions for internal and external audiences
- Assist in the preparation of brochures, reports, newsletters and other material
- Represent and act as an agent for talented individuals or individuals with specific occupational expertise
- Prepare or oversee preparation of sports, literary, performance or other contracts.
- Literary agents specialize in representing specific types of authors and writers. Performance agents specialize in representing singers, musicians, actors or other performers. Sports agents specialize in representing specific athletes or sports teams.

*Employment requirements*
- A university degree or college diploma in business marketing, public relations, communications, journalism, museology or a discipline related to a particular subject matter is usually required.
- Practitioners in public relations may require an APR (Accredited in Public Relations) designation.

*Additional information*
- Progression to managerial positions in public relations, communications and fundraising is possible with additional training and experience.

## 12 Administrative and financial supervisors and administrative occupations

This major group comprises administrative and financial supervisors and administrative occupations usually requiring completion of secondary school, a related university degree, college diploma or specialized training course and up to several years of related work experience. It includes administrative services supervisors; administrative and regulatory occupations; office administrative assistants; and court reporters, transcriptionists, records management technicians and statistical officers.

## 121 Administrative services supervisors

This minor group includes supervisors of general office and administrative support workers; supervisors of finance and insurance office workers; supervisors of library, correspondence and related information workers; supervisors of those in mail and message distribution occupations; and supervisors of those in supply chain, tracking and scheduling co-ordination occupations. They are employed by banks, other financial institutions, insurance companies, Canada Post Corporation, courier companies; and throughout the public and private sectors.

## 1211 Supervisors, general office and administrative support workers

Supervisors in this unit group supervise and co-ordinate the activities of workers in minor groups: General Office Workers (141) and Office Equipment Operators (142). They are employed throughout the public and private sectors.

*Inclusion(s)*
- operations supervisor

*Illustrative example(s)*
- clerical supervisor
- data entry supervisor
- filing clerks supervisor
- hospital admitting clerks supervisor
- personnel clerks supervisor
- records office supervisor
- registry supervisor
- switchboard operators supervisor

*Exclusion(s)*
- Office managers (see 1221 Administrative officers)
- Supervisors, finance and insurance office workers (see 1212 Supervisors, finance and insurance office workers)
- Supervisors, library, correspondence and related information workers (see 1213 Supervisors, library, correspondence and related information workers)
- Supervisors, mail and message distribution occupations (see 1214 Supervisors, mail and message distribution occupations)
- Supervisors, supply chain, tracking and scheduling co-ordination occupations (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of clerks engaged in the following duties: word processing; record keeping and filing; operating telephones and switchboards; data entry; desktop publishing; and other activities involving general office and administrative skills
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of office equipment and machinery, and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

*Employment requirements*

- Completion of college courses related to area supervised is usually required.
- Completion of secondary school is required.
- Experience in the occupation supervised is usually required.

## 1212 Supervisors, finance and insurance office workers

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: Accounting and related clerks(1431), Payroll administrators(1432), Banking, insurance and other financial clerks(1434) and Collectors(1435). They are employed by banks and other financial institutions, insurance companies, and by other establishments throughout the private and public sectors.

*Illustrative example(s)*

- accounts payable supervisor
- accounts receivable supervisor
- bank clerks supervisor
- billing supervisor
- bookkeeping supervisor
- claims adjusters supervisor
- collection supervisor
- credit supervisor
- payroll supervisor
- supervisor of accounting

*Exclusion(s)*

- Customer and information services supervisors (see 6314 Customer and information services supervisors)
- Financial managers (see 0111 Financial managers)
- Other financial officers (see 1114 Other financial officers)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Implement efficient working processes and co-ordinate, assign and review the work of clerks engaged in the following duties: administering accounts payable and receivable; processing, verifying and recording financial documents and forms; administering payrolls; processing, verifying and recording insurance claims and forms; and collecting user fees and payments on overdue accounts
- Examine and verify accuracy of work and authorize routine payments, credits and other transactions
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Identify training needs and train workers in job duties and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

*Employment requirements*

- Completion of a college program or courses in bookkeeping, accounting or a related subject is required.
- Experience in the clerical occupation supervised is required.

## 1213 Supervisors, library, correspondence and related information workers

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: Library Assistants and Clerks (1451), Correspondence, Publication and Regulatory Clerks (1452) and Survey Interviewers and Statistical Clerks (1454). They are employed throughout the public and private sectors.

*Illustrative example(s)*

- advertising clerks supervisor
- correspondence clerks supervisor
- library clerks supervisor
- publication clerks supervisor
- statistical clerks supervisor
- survey interviewers supervisor

*Exclusion(s)*

- Librarians (see 5111 Librarians)
- Library and public archive technicians (see 5211 Library and public archive technicians)
- Supervisors, mail and message distribution occupations (see 1214 Supervisors, mail and message distribution occupations)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of clerks engaged in the following duties: conducting surveys and interviews; collecting and compiling statistics; preparing and issuing licences, passports and other regulatory documents; reshelving books and performing other tasks in libraries; writing correspondence including e-mails and preparing material for translation and publication
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems, monitor services provided by clerks and agents, and prepare and submit progress and other reports
- Train workers in job duties and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

*Employment requirements*

- Completion of college courses related to area supervised may be required.
- Completion of secondary school is required.
- Experience in the clerical occupation supervised is usually required.

## 1214 Supervisors, mail and message distribution occupations

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: Mail, Postal and Related Workers (1511), Letter Carriers (1512) and Couriers, Messengers and Door-to-Door Distributors (1513). They are employed by Canada Post Corporation, courier companies, governments and large corporations.

*Illustrative example(s)*

- courier service supervisor
- letter carriers supervisor
- mail and postal clerks supervisor
- mail room supervisor
- messenger service supervisor

- postal station supervisor
- postmaster/mistress

*Exclusion(s)*

- Postal and courier services managers (see 0132 Postal and courier services managers)
- Shipping and receiving supervisors (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of postal clerks, letter carriers and couriers engaged in the collecting, sorting and delivering of mail, parcels and other material
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

*Employment requirements*

- Completion of secondary school is required.
- Several years of experience in the occupation supervised are usually required.

### 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: Shippers and Receivers (1521), Storekeepers and Partspersons (1522), Production Logistics Co-ordinators (1523), Purchasing and Inventory Control Workers (1524), Dispatchers (1525) and Transportation Route and Crew Schedulers (1526). They are employed throughout the public and private sectors.

*Inclusion(s)*

- guide-operator

*Illustrative example(s)*

- dispatch logistician
- flight crew scheduling supervisor
- freight forwarding logistician
- head dispatcher
- head shipper
- inventory control supervisor
- logistics supervisor - transportation
- parts service supervisor
- production clerks supervisor
- ramp services supervisor - airport
- receiving supervisor
- supply control co-ordinator

*Exclusion(s)*

- Supervisors, mail and message distribution occupations (see 1214 Supervisors, mail and message distribution occupations)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of clerks engaged in the following duties: shipping, receiving, storing, distributing and maintaining inventories of materials, parts and products; processing purchasing transactions; co-ordinating production work; dispatching crews; scheduling transportation crews and routes; operating airport ramp servicing vehicles; and other related activities
- Plan, organize and oversee operational logistics of the organization, establish work schedules and procedures, resolve work-related issues, prepare and submit progress and other reports and co-ordinate activities with other supply-chain work units or departments
- Train workers in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

*Employment requirements*

- Completion of secondary school is usually required.
- Several years of experience in the occupation supervised are usually required.

## 122 Administrative and regulatory occupations

This minor group includes administrative officers, executive assistants, human resources and recruitment officers, property administrators, purchasing agents and officers, conference and event planners, court officers, justices of the peace and employment insurance, immigration, border services and revenue officers. They are employed by governments, government agencies, corporations and associations; property, real estate and strata services management companies and property development companies; convention and conference centres and conference and event planning companies; and federal and provincial courts; or they may be self-employed.

### 1221 Administrative officers

Administrative officers oversee and implement administrative procedures, establish work priorities, conduct analyses of administrative operations and co-ordinate acquisition of administrative services such as office space, supplies and security services. They are employed throughout the public and private sectors. Administrative officers who are supervisors are included in this unit group.

*Inclusion(s)*

- communications service co-ordinator
- exam invigilator - post-secondary institution
- exam supervisor - post-secondary institution
- implementation officer
- liaison officer
- place holder
- place holder
- place holder
- public trustee
- regional services chief
- relocation commissioner

*Illustrative example(s)*

- access to information and privacy officer
- administrative officer
- administrative services co-ordinator
- forms management officer
- office administrator
- office manager
- office services co-ordinator
- planning officer
- records analyst - access to information

- surplus assets officer
- university admissions officer

*Exclusion(s)*
- Administrative services managers (see 0114 Other administrative services managers)
- Conference and event planners (see 1226 Conference and event planners)
- Executive assistants (see 1222 Executive assistants)
- Property administrators (see 1224 Property administrators)

*Main duties*

Administrative officers perform some or all of the following duties:
- Oversee and co-ordinate office administrative procedures and review, evaluate and implement new procedures
- Establish work priorities, delegate work to office support staff, and ensure deadlines are met and procedures are followed
- Carry out administrative activities associated with admissions to post-secondary educational institutions
- Administer policies and procedures related to the release of records in processing requests under government access to information and privacy legislation
- Co-ordinate and plan for office services, such as accommodation, relocations, equipment, supplies, forms, disposal of assets, parking, maintenance and security services
- Conduct analyses and oversee administrative operations related to budgeting, contracting and project planning and management processes
- Assist in preparation of operating budget and maintain inventory and budgetary controls
- Assemble data and prepare periodic and special reports, manuals and correspondence
- May supervise records management technicians and related staff.

*Employment requirements*
- A university degree or college diploma in business or public administration may be required.
- Completion of secondary school is required.
- Experience in a senior clerical or executive secretarial position related to office administration is usually required.
- Project management certification may be required by some employers.

*Additional information*
- Progression to administrative service management positions is possible with experience.

## 1222 Executive assistants

Executive assistants co-ordinate administrative procedures, public relations activities and research and analysis functions for members of legislative assemblies, ministers, deputy ministers, corporate officials and executives, committees and boards of directors. They are employed by governments, corporations and associations.

*Inclusion(s)*
- special assistant

*Illustrative example(s)*
- committee clerk
- corporate secretary
- executive assistant
- legislative assistant

*Exclusion(s)*
- Administrative officers (see 1221 Administrative officers)
- Conference and event planners (see 1226 Conference and event planners)
- Executive secretaries (see 1241 Administrative assistants)

*Main duties*

Executive assistants perform some or all of the following duties:
- Establish and co-ordinate administrative policies and procedures for officials, committees and boards of directors
- Analyze incoming and outgoing memoranda, submissions and reports and prepare and co-ordinate the preparation and submission of summary briefs and reports to executives, committees and boards of directors
- Prepare agendas and make arrangements for committee, board and other meetings
- Conduct research, compile data, and prepare papers for consideration and presentation by executives, committees and boards of directors
- Meet with individuals, special interest groups and others on behalf of executives, committees and boards of directors to discuss issues and assess and recommend various courses of action
- Liaise with departmental and corporate officials and with other organizations and associations on behalf of executives, committees and boards of directors.

*Employment requirements*
- A bachelor's degree in public administration, political science or a related discipline is usually required.
- Completion of secondary school is required.
- Experience in a related administrative occupation is usually required.

## 1223 Human resources and recruitment officers

Human resources and recruitment officers identify and advertise job vacancies, recruit candidates, and assist in the selection and reassignment of employees. They are employed throughout the private and public sectors.

*Inclusion(s)*
- employment supervisor
- place holder

*Illustrative example(s)*
- human resources officer
- personnel officer
- recruitment specialist
- staffing analyst
- staffing co-ordinator

*Exclusion(s)*
- Human resources managers (see 0112 Human resources managers)
- Human resources professionals (see 1121 Human resources professionals)
- Personnel clerks (see 1415 Personnel clerks)
- Training officers and instructors (see 4021 College and other vocational instructors)

*Main duties*

Human resources and recruitment officers perform some or all of the following duties:
- Identify current and prospective staffing requirements, prepare and post notices and advertisements, and collect and screen applications
- Advise job applicants on employment requirements and on terms and conditions of employment
- Review candidate inventories and contact potential applicants to arrange interviews and transfers, redeployment and placement of personnel
- Recruit graduates of colleges, universities and other educational institutions
- Co-ordinate and participate in selection and examination boards to evaluate candidates
- Notify applicants of results of selection process and prepare job offers
- Advise managers and employees on staffing policies and procedures
- Organize and administer staff consultation and grievance procedures
- Negotiate settlements of appeals and disputes and co-ordinate termination of employment process

- Determine eligibility to entitlements, arrange staff training and provide information or services such as employee assistance, counselling and recognition programs
- May supervise personnel clerks performing filing and record-keeping duties.

*Employment requirements*
- A university degree or college diploma in a field related to personnel management such as business administration, industrial relations, commerce or psychology or Completion of a professional development program in personnel administration is usually required.
- Certification as a Certified Human Resources Professional (CHRP) may be required.
- Some experience in a clerical or administrative position related to personnel administration may be required.

*Additional information*
- Progression to specialist and management positions is possible with experience.

## 1224 Property administrators

Property administrators perform administrative duties and co-ordinate activities related to the management and rental of investment property and real estate on behalf of property and strata property owners. They are employed by property, real estate and strata services management companies, property development companies and by government.

*Inclusion(s)*
- landlord/landlady

*Illustrative example(s)*
- accommodation officer
- apartment rental agent
- housing project manager
- property administrator
- property leasing co-ordinator
- property rentals manager

*Exclusion(s)*
- Building superintendents (see 6733 Janitors, caretakers and building superintendents)
- Facility operation and maintenance managers (see 0714 Facility operation and maintenance managers)
- Real estate agents and salespersons (see 6232 Real estate agents and salespersons)

*Main duties*

Property administrators perform some or all of the following duties:
- Negotiate or approve rental or lease of various properties in a portfolio on behalf of property owners and ensure that terms of lease agreement are met
- Prepare and administer contracts for provision of property services, such as cleaning and maintenance, security services and alarm systems
- Co-ordinate the implementation of repairs, maintenance and renovations carried out on buildings and monitor progress and cost of work for property owners
- Compile and maintain records on operating expenses and income, prepare reports and review rents to ensure they are at market value
- Ensure that trouble calls received from clients or tenants are acted upon
- Administer damage deposits
- May hire and supervise rental agents, property clerks, building superintendents or other support staff performing operational, clerical or maintenance duties.

*Employment requirements*
- A language proficiency index is required in British Columbia.
- Completion of secondary school is required in all provinces and territories except for British Columbia.

- Completion of training courses or a vocational program in property or strata management or real estate may be required.
- Property administrators must be a minimum of nineteen years of age in British Columbia.
- Several years of administrative experience as a property clerk, contract clerk, or administrative officer are usually required.
- Strata property managers must hold a licence in British Columbia.

## 1225 Purchasing agents and officers

Purchasing agents and officers purchase general and specialized equipment, materials, land or access rights and business services for use or for further processing by their establishment. They are employed throughout the public and private sectors.

*Illustrative example(s)*

- contract management officer
- contracts officer
- energy asset surface land analyst
- furniture and furnishings purchaser
- government supply officer
- materiel management officer
- procurement officer
- purchasing agent

*Exclusion(s)*

- Purchasing and inventory control workers (see 1524 Purchasing and inventory control workers)
- Purchasing managers (see 0113 Purchasing managers)
- Retail and wholesale buyers (see 6222 Retail and wholesale buyers)

*Main duties*

Purchasing agents and officers perform some or all of the following duties:

- Purchase general and specialized equipment, materials, land or access rights, or business services for use or for further processing by their establishment
- Assess requirements of an establishment and develop specifications for equipment, materials and supplies to be purchased
- Invite tenders, consult with suppliers and review quotations
- Determine or negotiate contract terms and conditions, award supplier contracts or recommend contract awards
- Establish logistics of delivery schedules, monitor progress and contact clients and suppliers to resolve problems
- Negotiate land acquisition or access rights for public or private use, and may conduct field investigations of properties
- May hire, train or supervise purchasing clerks.
- Purchasing agents and officers may specialize in the purchase of particular materials or business services such as furniture or office equipment.

*Employment requirements*

- A bachelor's degree or college diploma in business administration, commerce or economics is usually required.
- A certificate in purchasing from the Purchasing Management Association of Canada (PMAC) may be required.
- Certification from the International Right of Way Association (IRWA) may be required.
- Previous experience as a purchasing clerk or as an administrative clerk may be required.
- Purchasing agents and officers purchasing specialized materials or business services may require a related university degree or college diploma. For example, a bachelor's degree or college diploma in engineering may be required for purchasers of industrial products.

*Additional information*
- Progression to managerial positions is possible with experience.

## 1226 Conference and event planners

Conference and event planners plan, organize and co-ordinate conferences, conventions, meetings, seminars, exhibitions, trade shows, festivals and other events. They are employed by tourism associations, trade and professional associations, convention and conference centres, governments and by conference and event planning companies, or they may be self-employed.

*Illustrative example(s)*
- conference and meeting planner
- conference planner
- conference services officer
- convention co-ordinator
- event planner
- festival organizer
- meeting planner
- special events organizer
- trade show planner

*Exclusion(s)*
- Administrative officers (see 1221 Administrative officers)
- Executive assistants (see 1222 Executive assistants)
- Professional occupations in advertising, marketing and public relations (see 1123 Professional occupations in advertising, marketing and public relations)
- Sales and account representatives - wholesale trade (non-technical) (see 6411 Sales and account representatives - wholesale trade (non-technical))

*Main duties*

Conference and event planners perform some or all of the following duties:
- Meet with trade and professional associations and other groups to promote and discuss conference, convention and trade show services
- Meet with sponsors and organizing committees to plan the scope and format of events, to establish and monitor budgets and to review administrative procedures and progress of events
- Co-ordinate services for events, such as accommodation and transportation for participants, conference and other facilities, catering, signage, displays, translation, special needs requirements, audio-visual equipment, printing and security
- Organize registration of participants, prepare programs and promotional material, and publicize events
- Plan entertainment and social gatherings for participants
- Hire, train and supervise support staff required for events
- Ensure compliance with required by-laws
- Negotiate contracts for services, approve suppliers' invoices, maintain financial records, review final billing submitted to clients for events and prepare reports.

*Employment requirements*
- A university degree or college diploma in business, tourism or hospitality administration is usually required.
- Certification relating to special events, meetings or conference management may be required.
- Several years of experience in hospitality or tourism administration or in public relations are usually required and may substitute for formal education requirements.

## 1227 Court officers and justices of the peace

Court officers co-ordinate the administrative and procedural functions of federal, provincial and territorial courts, such as scheduling trials and overseeing the maintenance of court records. Justices of the peace administer oaths, issue subpoenas, summonses and warrants and perform other court-related duties such as conducting bail hearings. They are employed by federal, provincial and territorial courts.

*Inclusion(s)*

- prothonotary

*Illustrative example(s)*

- commissioner of affidavits
- commissioner of marriages
- co-ordinator of court services
- court administrator
- court clerk supervisor
- court officer
- court registrar
- court services manager
- deputy registrar - courts
- judicial administrator
- judicial court administrator
- judicial officer
- justice of the peace
- registrar of bankruptcy
- Supreme Court registrar
- trial co-ordinator - courts

*Exclusion(s)*

- Administrative officers (see 1221 Administrative officers)
- Court clerks (see 1416 Court clerks)
- Paralegal and related occupations (see 4211 Paralegal and related occupations)
- Sheriffs and bailiffs (see 4421 Sheriffs and bailiffs)

*Main duties*

Court officers perform some or all of the following duties:

- Co-ordinate administrative services and establish work priorities for court staff
- Schedule court trials and arrange pre-trial conferences and hearings
- Call courts of law to order, read charges and take pleas from defendants
- Record court commencement, trial proceedings and judgements
- Collect and record sheriff fees, transcription fees and other court administrative and services fees
- Oversee the maintenance of judicial court records
- Assist in preparing annual budgets
- May be justices of the peace.

Justices of the peace perform some or all of the following duties:

- Issue subpoenas, summonses and warrants, including search warrants
- Receive affidavits, declarations and affirmations
- Administer oaths
- Conduct bail hearings
- Release defendants on judges' orders and explain rights and obligations
- Hear evidence at trials on summary conviction offences and may preside over trials of criminal offences at the discretion of the chief judge of the jurisdiction or as provided for in federal, provincial or territorial statutes
- Perform civil marriages.

*Employment requirements*

- Completion of a justice registrar, justice of the peace or other court training program is required for court officers and justices of the peace.
- Court officers usually require a university degree in law, business or public administration or a college diploma in public administration or legal studies.
- Justices of the peace in the provinces are appointed by the lieutenant governor in council and, in the territories, by federally appointed territorial commissioners.
- Several years of experience as a court clerk or in another court service occupation are usually required.

*Additional information*

- Progression to senior positions such as senior court administrator is possible through experience.
- The duties and responsibilities of justices of the peace vary significantly depending on the level of their authority. They may be employed part-time on a fee-for-service basis in small communities. Their duties range from receiving affidavits and similar

## 1228 Employment insurance, immigration, border services and revenue officers

Officers in this unit group administer and enforce laws and regulations related to immigration, customs, border crossing, tax revenue, employment insurance and other government benefit services. They are employed by government agencies.

*Inclusion(s)*

- appeal officer

*Illustrative example(s)*

- border services officer (BSO)
- customs inspector
- customs officer
- employment insurance agent
- employment insurance benefits control officer
- immigration agent - government services
- immigration examining officer
- revenue officer
- tax collection officer
- tax enforcement officer

*Exclusion(s)*

- Financial auditors and accountants (see 1111 Financial auditors and accountants)
- Managers responsible for immigration or employment insurance (see 0411 Government managers - health and social policy development and program administration)
- Managers responsible for taxation revenue or customs (see 0412 Government managers - economic analysis, policy development and program administration)
- Other financial officers (see 1114 Other financial officers)
- Social policy researchers, consultants and program officers (see 4164 Social policy researchers, consultants and program officers)

*Main duties*

Immigration officers perform some or all of the following duties:

- Determine admissibility of persons seeking entry into Canada by examining documents and conducting interviews
- Grant landed-immigrant status, admit persons or order detention or deportation
- Locate and apprehend persons presumed to be infringing on immigration laws
- Assist in the removal of deported people by seeking authorization from receiving countries and securing necessary travel documents
- Appear as a witness in cases related to immigration appeals.

Border services officers and customs inspectors perform some or all of the following duties:

- Question persons at border points to determine the admissibility of goods and assess duty
- Inspect baggage to detect undeclared merchandise, or contraband
- Inform manufacturers and shippers of customs and laws and procedures
- Observe fabrication of articles affected by customs laws and conduct appraisals
- Board carriers arriving from foreign countries to determine nature of cargo to ensure compliance with customs and commerce laws
- Inspect goods imported by mail
- May arrest and detain individuals suspected of having committed a criminal offence under the Customs Act or certain other designated Criminal Code offences until police intervention is possible.

Excise tax revenue officers perform some or all of the following duties:

- Audit accounting records to determine income, exemptions, payable taxes, compliance with reporting regulations and existence of fraud
- Examine accounting systems and internal controls of organizations
- Provide advice on reporting and evaluation methods for goods subject to taxation
- Prepare briefs and assist in searching and seizing records, and in preparing charges for court cases.

Government benefits services officers perform some or all of the following duties:

- Determine the eligibility of persons applying for government benefits such as Employment Insurance (EI), Canada Pension Plan (CPP) and Old Age Security (OAS)
- Ascertain the facts on such issues as reasons for loss of employment and availability for work
- Monitor the payments of benefits and investigate claimants when there appears to be fraud or abuse.

*Employment requirements*

- A bachelor's degree or college diploma is usually required.
- Completion of specialized government training is required.
- Several years of related administrative or regulatory experience may be required.

*Additional information*

- Progression to managerial positions in these fields is possible with experience.

## 124 Office administrative assistants - general, legal and medical

This minor group includes administrative assistants, legal administrative assistants and medical administrative assistants. They are employed in law offices, legal departments of large firms, real estate companies, land title offices, and municipal, provincial and federal courts; doctor's offices, hospitals, medical clinics and other medical settings; and throughout the public and private sectors.

### 1241 Administrative assistants

Administrative assistants perform a variety of administrative duties in support of managerial and professional employers. They are employed throughout the private and public sectors.

*Inclusion(s)*

- secretary-clerk

*Illustrative example(s)*

- administrative assistant
- executive secretary (except legal and medical)
- office administrative assistant
- private secretary
- secretary (except legal and medical)
- technical secretary

*Exclusion(s)*

- Court reporters, medical transcriptionists and related occupations (see 1251 Court reporters, medical transcriptionists and related occupations)
- Executive assistants (see 1222 Executive assistants)

- Legal administrative assistants (see 1242 Legal administrative assistants)
- Medical administrative assistants (see 1243 Medical administrative assistants)
- Office managers (see 1221 Administrative officers)

*Main duties*

Administrative assistants perform some or all of the following duties:

- Prepare, key in, edit and proofread correspondence, invoices, presentations, brochures, publications, reports and related material from machine dictation and handwritten copy
- Open and distribute incoming regular and electronic mail and other material and co-ordinate the flow of information internally and with other departments and organizations
- Schedule and confirm appointments and meetings of employer
- Order office supplies and maintain inventory
- Answer telephone and electronic enquiries and relay telephone calls and messages
- Set up and maintain manual and computerized information filing systems
- Determine and establish office procedures
- Greet visitors, ascertain nature of business and direct visitors to employer or appropriate person
- Record and prepare minutes of meetings
- Arrange travel schedules and make reservations
- May compile data, statistics and other information to support research activities
- May supervise and train office staff in procedures and in use of current software
- May organize conferences.

*Employment requirements*

- Completion of a one- or two-year college or other program for administrative assistants or secretaries or Previous clerical experience is required.
- Completion of secondary school is usually required.

## 1242 Legal administrative assistants

Legal administrative assistants perform a variety of secretarial and administrative duties in law offices, legal departments of large firms, real estate companies, land title offices, municipal, provincial and federal courts and government.

*Illustrative example(s)*

- administrative assistant - legal
- corporate law legal assistant
- legal assistant
- legal assistant - criminal law
- legal secretary
- litigation legal assistant
- litigation secretary
- real estate secretary

*Exclusion(s)*

- By-law clerks (see 1452 Correspondence, publication and regulatory clerks)
- Court recorders (see 1251 Court reporters, medical transcriptionists and related occupations)
- Paralegal and related occupations (see 4211 Paralegal and related occupations)

*Main duties*

Legal administrative assistants perform some or all of the following duties:

- Prepare and key in correspondence and legal documents, such as deeds, wills, affidavits and briefs, from handwritten copy, shorthand and machine dictation using computers
- Review and proofread documents and correspondence to ensure compliance with legal procedures and grammatical usage
- Schedule appointments, meetings and conferences for employer

- Set up and maintain filing systems, utilizing knowledge of legal records and procedures and frequently controlling confidential materials and documents
- Open and distribute regular and electronic incoming mail and other material and co-ordinate the flow of information internally and with other departments or organizations
- Determine and establish office procedures and routines
- May supervise and train other staff in procedures and in the use of current software
- May attend court, meetings or conferences to take notes, minutes and dictation
- May perform other general office work as required including preparing financial statements.

*Employment requirements*

- Completion of a one- or two-year college or other program for secretaries or legal secretaries is usually required.
- Completion of secondary school is usually required.

### 1243 Medical administrative assistants

Medical administrative assistants perform a variety of secretarial and administrative duties in doctor's offices, hospitals, medical clinics and other medical settings.

*Illustrative example(s)*

- administrative assistant - medical
- medical secretary
- ward secretary

*Exclusion(s)*

- Health information management occupations (see 1252 Health information management occupations)
- Medical records clerks (see 1411 General office support workers)
- Medical transcriptionists (see 1251 Court reporters, medical transcriptionists and related occupations)

*Main duties*

Medical administrative assistants perform some or all of the following duties:

- Schedule and confirm medical appointments and receive and communicate messages for medical staff and patients
- Enter and format electronically based medical reports and correspondence and prepare spreadsheets and documents for review
- Interview patients in order to complete forms, documents and case histories
- Complete insurance and other claim forms
- Initiate and maintain confidential medical files and records
- Prepare draft agendas for meetings and take, transcribe and distribute minutes
- Prepare financial statements and billing
- Establish and maintain various internal office administrative support procedures such as document tracking and filing and monthly reporting
- Order supplies and maintain inventory
- Determine and establish office procedures and routines
- May supervise and train other staff in procedures and in use of current software.

*Employment requirements*

- Completion of a one- or two-year college program or other specialized courses for secretaries or medical secretaries is usually required.
- Completion of secondary school is usually required.

## 125 Court reporters, transcriptionists, records management technicians and statistical officers

This minor group includes court reporters, medical transcriptionists and those in related occupations; those in health information management occupations; records management technicians; and statistical officers and those in related research support occupations. They are employed by courts of law, provincial and federal legislative assemblies and committees; hospitals, medical clinics and doctors' offices; workplace health and safety boards, health record consulting firms and other health care establishments; and throughout the public and private sectors; or they may be self-employed.

## 1251 Court reporters, medical transcriptionists and related occupations

Court reporters record and transcribe verbatim the proceedings of courts, legislative assemblies and committees, and prepare transcripts for use by judges, tribunals and quasi-judicial panels. They are employed by courts of law, provincial and federal legislative assemblies and committees, or they may be self-employed. Medical transcriptionists record, transcribe and edit dictation by physicians and other health care providers, surgical proceedings, health-related reports and other medical documentation. They are employed by hospitals, medical clinics and doctors' offices, or they may be self-employed. Closed captioners and other transcriptionists are included in this unit group.

*Illustrative example(s)*
- closed captioner
- court reporter
- Hansard reporter
- medical transcriptionist
- transcriptionist

*Exclusion(s)*
- Legal administrative assistants (see 1242 Legal administrative assistants)
- Medical administrative assistants (see 1243 Medical administrative assistants)

*Main duties*

Court reporters perform some or all of the following duties:
- Record verbatim proceedings of courtroom using electronic stenograph machine or stenomask
- Respond to requests during court sessions to read back verbatim evidence
- Transcribe recorded proceedings in accordance with established formats
- Verify accuracy of transcripts by checking copy against original record of proceedings and accuracy of rulings by checking with judge
- Research and locate quotes to ensure accuracy
- Respond to requests for transcripts ordered by judges, lawyers or the public
- File and store shorthand notes of court session.

Medical transcriptionists perform some or all of the following duties:
- Transcribe recorded dictation in accordance with established formats or written documentation from medical reports, correspondence, health records and patient information
- Proofread work for typographical and grammatical errors
- Edit transcripts for missing or incorrect content and formatting.

*Employment requirements*
- Court reporters require completion of secondary school and usually require completion of a college or other program in court reporting. They may also require the Chartered Shorthand Reporter (CSR) certificate.
- Health information management technicians and related workers are eligible to write the Canadian Health Information Management Association national certification examination which may be required by employers.
- Health information management technicians and related workers require completion of a recognized two year college diploma program in health record technology or health information management.
- Medical transcriptionists require completion of secondary school and usually require completion of a recognized medical transcription program. They may also require the Certified Medical Transcriptionist (CMT) certificate.

*Additional information*

- There is some mobility between occupations in this unit group and other occupations requiring similar knowledge of legal or medical terminology, such as legal or medical administrative positions.

## 1252 Health information management occupations

Health information management technicians and related workers collect, code, record, review and manage health information. They are employed by hospitals, clinics, workplace health and safety boards, health record consulting firms and other health care establishments. Health information management technicians and related workers who are supervisors are included in this unit group.

*Illustrative example(s)*

- health information management supervisor
- health information management technician
- health records technician
- medical records unit supervisor

*Exclusion(s)*

- Health information management consultants (see 1122 Professional occupations in business management consulting)
- Health records administrators (see 0114 Other administrative services managers)
- Health records clerks (see 1411 General office support workers)
- Records management technicians (see 1253 Records management technicians)

*Main duties*

Health information management technicians and related workers perform some or all of the following duties:

- Classify and code diseases according to an established classification system
- Collect, code, cross-reference and store health records and related information
- Abstract, assemble and analyze clinical data and related demographic information from health records according to established policies and procedures
- Operate information systems to maintain indexes for classification systems and to manage and retrieve health records information
- Prepare medical, social and administrative statistics
- May supervise other health information management technicians and related workers.

*Employment requirements*

- Records management technicians usually require completion of a two- to three-year college program in information or records management technology.
- Two to three years' experience in a records management environment may be required.

*Additional information*

- Progression to management positions is possible with additional training and experience.
- Progression to supervisory positions is possible with experience.

## 1253 Records management technicians

Records management technicians operate and maintain systems for the collection, classification, retrieval and retention of records, images, documents and information. Records management technicians are employed throughout the private and public sectors.

*Illustrative example(s)*

- information management technician
- microfilm records searcher
- records classifier
- records digitizing technician
- records technician

*Exclusion(s)*
- Health information management occupations (see 1252 Health information management occupations)
- Health records clerks (see 1411 General office support workers)
- Library and public archive technicians (see 5211 Library and public archive technicians)
- Records management specialists (see 1122 Professional occupations in business management consulting)
- Records management supervisors (see 1211 Supervisors, general office and administrative support workers)

*Main duties*

Records management technicians perform some or all of the following duties:
- Implement and update records classification, retention and disposal scheduling plans
- Classify, code, cross-reference, log and store records
- Develop document inventories and maintain indexes for classification systems
- Operate information retrieval systems to research and extract records according to established guidelines in response to requests
- Label, prepare and transfer information files according to established records management life-cycle procedures and schedules
- Maintain access lists for security classified records
- Compile statistics and reports on activities within records management services.

*Employment requirements*
- A college diploma or undergraduate degree in a social science, commerce, statistics or a related field is usually required.
- Completion of secondary school is required.

*Additional information*
- Progression to supervisory positions is possible with additional training and experience.

### 1254 Statistical officers and related research support occupations

Statistical officers and related research support occupations in this unit group provide statistical and research support services to a wide range of businesses and organizations. These workers conduct statistical routines, monitor trends, compile data and prepare charts, graphs, summaries and reports in support of organizational information needs and research activities. They are employed throughout the private and public sectors. Statistical officers who are also supervisors are included in this unit group.

*Illustrative example(s)*
- research assistant - generalist (except university)
- research support officer
- social research assistant (except university)
- statistical officer
- technical research assistant (except post-secondary)

*Exclusion(s)*
- Data entry clerks (see 1422 Data entry clerks)
- Mathematicians, statisticians and actuaries (see 2161 Mathematicians, statisticians and actuaries)
- Policy and program researchers, consultants and officers (see 416 Policy and program researchers, consultants and officers)
- Survey interviewers and statistical clerks (see 1454 Survey interviewers and statistical clerks)

*Main duties*

Statistical officers and related research support workers perform some or all of the following duties:
- Compile tables, charts, graphs and summarized statistics for integration in research papers and reports
- Process data using statistical software to conduct basic analyses of trends in support of research activities

- Collect, consolidate, cross-tabulate and format data from various sources to prepare draft reports for review by supervisors or researchers
- Assist in collection and tracking of data from monitored use of services and provide information to management and client groups
- May prepare technical documents and monitoring reports on volumetrics and other trend analyses
- May supervise statistical and research support workers.

*Employment requirements*

- Completion of a college program in accounting, bookkeeping or a related field or Completion of two years (first level) of a recognized professional accounting program (e.g., Chartered Accounting, Certified General Accounting) or Courses in accounting or bookkeeping combined with several years of experience as a financial or accounting clerk are required.
- Completion of secondary school is required.

*Additional information*

- Progression to supervisory positions is possible with experience. Progression to professional occupations in statistics and research usually requires completion of a post-graduate degree.

## 13 Finance, insurance and related business administrative occupations

This major group comprises finance, insurance and related business administrative occupations usually requiring some post-secondary education, several years of work related experience and, in some cases, a licence or professional designation. It includes accounting technicians and bookkeepers; insurance adjusters and claims examiners; insurance underwriters; assessors, valuators and appraisers; and customs, ship and other brokers.

## 131 Finance, insurance and related business administrative occupations

This minor group includes accounting technicians, bookkeepers, insurance adjusters, claims examiners, insurance underwriters, assessors, valuators, appraisers and customs, ship and other brokers. They are employed in claims departments of insurance companies and as independent adjusters; at head and branch offices of insurance companies; by government agencies, real estate firms and other private companies; by customs, ship and other brokerage establishments; and throughout the public and private sectors; or they may be self-employed.

## 1311 Accounting technicians and bookkeepers

Accounting technicians and bookkeepers maintain complete sets of books, keep records of accounts, verify the procedures used for recording financial transactions, and provide personal bookkeeping services. They are employed throughout the private and public sectors, or they may be self-employed.

*Illustrative example(s)*

- accounting bookkeeper
- accounting technician
- bookkeeper
- finance technician

*Exclusion(s)*

- Accounting and related clerks (see 1431 Accounting and related clerks)
- Banking, insurance and other financial clerks (see 1434 Banking, insurance and other financial clerks)
- Financial auditors and accountants (see 1111 Financial auditors and accountants)
- Payroll clerks (see 1432 Payroll administrators)

*Main duties*

Accounting technicians and bookkeepers perform some or all of the following duties:

- Keep financial records and establish, maintain and balance various accounts using manual and computerized bookkeeping systems

- Post journal entries and reconcile accounts, prepare trial balance of books, maintain general ledgers and prepare financial statements
- Calculate and prepare cheques for payrolls and for utility, tax and other bills
- Complete and submit tax remittance forms, workers' compensation forms, pension contribution forms and other government documents
- Prepare tax returns and perform other personal bookkeeping services
- Prepare other statistical, financial and accounting reports.

*Employment requirements*

- A bachelor's degree, college diploma or some post-secondary education or Several years of experience as a clerk in the claims department or other general insurance experience are required.
- Completion of secondary school is required.

*Additional information*

- Progression to professional accounting occupations is possible with additional training.

### 1312 Insurance adjusters and claims examiners

Insurance adjusters investigate insurance claims and determine the amount of loss or damages covered by insurance policies. They are employed in claims departments of insurance companies or as independent adjusters. Insurance claims examiners examine claims investigated by insurance adjusters and authorize payments. They are employed at head offices or branches of insurance companies.

*Inclusion(s)*

- production examiner

*Illustrative example(s)*

- adjuster
- claims examiner
- claims representative
- insurance adjuster

*Exclusion(s)*

- Supervisors, finance and insurance office workers (see 1212 Supervisors, finance and insurance office workers)

*Main duties*

Insurance adjusters perform some or all of the following duties:

- Investigate circumstances surrounding insurance claims to determine validity of claim
- Inspect automobile, home or other property damage
- Take statements and consult with claimants, accident witnesses, doctors and other relevant individuals and examine records or reports
- Determine amount of loss or damages covered by insurance policies
- Negotiate settlement of claims
- Prepare adjustment reports.

Insurance claims examiners perform some or all of the following duties:

- Review, examine, calculate and authorize insurance claims investigated by insurance adjusters
- Examine adjusters' reports and similar insurance claims or precedents to determine extent of insurance coverage
- Ensure claims are valid and settlements are made according to company practices and procedures
- Consult lawyers, doctors or other relevant individuals to discuss insurance claims
- Approve automobile, fire, life, disability, dental or other insurance claims.

*Employment requirements*

- Completion of secondary school and some general insurance experience or A bachelor's degree, college diploma or some post-secondary education is required.

- Independent adjusters require a provincial licence issued by the Superintendent of Insurance in the province or territory of employment.
- Several years of on-the-job training and completion of insurance industry courses and training programs are required.
- Several years of on-the-job training and completion of insurance industry underwriting courses and training programs are required.

*Additional information*

- Completion of educational programs through the Insurance Institute of Canada or its provincial counterparts entitles insurance adjusters and claims examiners to professional recognition as a Chartered Insurance Professional (CIP), and with additional univ

## 1313 Insurance underwriters

Insurance underwriters review and evaluate insurance applications to determine insurance risks, insurance premiums and extent of insurance coverage according to company policies. Insurance underwriters are employed at head and branch offices of insurance companies.

*Inclusion(s)*

- casualty insurance products analyst-designer
- insurance rating analyst

*Illustrative example(s)*

- group underwriter
- insurance underwriter
- liability underwriter
- property underwriter

*Exclusion(s)*

- Insurance agents and brokers (see 6231 Insurance agents and brokers)
- Insurance managers (see 0121 Insurance, real estate and financial brokerage managers)

*Main duties*

Insurance underwriters perform some or all of the following duties:

- Review individual and group applications for automobile, fire, health, liability, life, property, marine, aircraft and other insurance
- Evaluate new and renewal applications to determine insurance risks, insurance premiums, extent of insurance coverage and other conditions of the insurance contract using medical reports, rate tables and other documents and reference materials; adjust premiums, coverage or risk itself to make acceptance of new and renewal applications possible
- Approve sale of insurance policies and ensure compliance with government regulations
- Provide recommendations on individual or group insurance plan designs
- Provide underwriting advice and answer inquiries from clients and from insurance agents, consultants and other company personnel
- Prepare underwriting reports and update insurance forms when necessary.

*Employment requirements*

- Assessors require a college diploma in municipal assessment and Accreditation with the municipal assessment association of the province.
- Valuators usually require a bachelor's degree or college diploma in accounting, business or commerce and Accreditation with the Canadian Institute of Chartered Business Valuators based on successful completion of its business and security valuation program.

*Additional information*
- Completion of educational programs through the Insurance Institute of Canada or its provincial counterparts entitles insurance underwriters to professional recognition as a Chartered Insurance Professional (CIP) and, with additional university courses, as
- Progression to management positions in the insurance industry is possible with experience.

### 1314 Assessors, valuators and appraisers

Assessors, valuators and appraisers determine the value of land, businesses, estates and other real property, for purposes of sale, purchase, taxation or disposal of assets. Appraisers also determine the value of personal and household items. Assessors, valuators and appraisers are employed by government agencies, real estate firms and other private companies, or they may be self-employed.

*Inclusion(s)*
- real estate analyst

*Illustrative example(s)*
- accredited appraiser
- business valuator
- chartered business valuator (CBV)
- property assessor
- property valuator
- real estate appraiser

*Exclusion(s)*
- Financial and investment analysts (see 1112 Financial and investment analysts)
- Financial auditors and accountants (see 1111 Financial auditors and accountants)
- Insurance adjusters and claims examiners (see 1312 Insurance adjusters and claims examiners)
- Jewellery appraisers (see 6344 Jewellers, jewellery and watch repairers and related occupations)
- Land agents and right of way agents (see 1225 Purchasing agents and officers)
- Market analysts - non-financial (see 4163 Business development officers and marketing researchers and consultants)
- Property administrators (see 1224 Property administrators)

*Main duties*

Assessors, valuators and appraisers perform some or all of the following duties:
- Assessors
- Assess value of land, building, structures, machinery, equipment and property improvements for purposes of taxation, grants and regional planning and prior to sale or purchase
- Review and analyze data such as past sales, title searches, engineering and alignment maps, soil maps, subdivision plans, water and sewer plans, leasing cost data and easements
- Explain assessment process to ratepayers
- May specialize in advising and consulting in a specific field of assessment such as residential, commercial, industrial, institutional or farm lands.
- Valuators
- Collect and analyze financial records of a business, such as financial statements, budgets, projections and sales data, to assess its competitiveness or to estimate its market value
- Prepare reports for estate planning, matrimonial litigation, insurance and business losses
- Appear as an expert witness before courts, security regulators and other regulatory boards and commissions.
- Appraisers
- Appraise value of property, building, industrial and commercial machinery and equipment and personal and household items
- Prepare appraisal reports for lending agencies, insurance companies, government departments, courts, attorneys, creditors, buyers or auctioneers.
- Appraisers may specialize in a specific type of appraisal such as real estate appraisal.

*Employment requirements*

- Appraisers of residential, commercial or industrial property require accreditation with the Appraisal Institute of Canada.
- Appraisers require a college diploma or vocational training in the field of appraisal or Several years of experience in a position related to the field of appraisal.
- Completion of secondary school is required.
- In Quebec, membership with l'Ordre des évaluateurs agréés du Québec (OEAQ) is required to use the title chartered appraiser
- Real estate appraisers usually require several years of experience as a real estate agent, right-of-way agent or property administrator and may require Canadian residential appraiser certification.
- Some post-secondary education in commerce or a related field may be required.

*Additional information*

- Progression to management positions in each field is possible with experience.

## 1315 Customs, ship and other brokers

Customs brokers clear goods through customs and to their destination on behalf of importer and exporter clients. Shipbrokers buy and sell cargo space on ships and buy and sell ships, yachts and other watercraft on behalf of clients. This unit group also includes other brokers, not elsewhere classified, who negotiate commercial transactions, logistics or other services between parties on behalf of clients. They are employed by customs, ship or other brokerage establishments or may be self-employed.

*Inclusion(s)*

- ship line agent

*Illustrative example(s)*

- cargo broker
- chartered shipbroker
- customs broker
- gas broker
- licensed customs broker
- shipbroker

*Exclusion(s)*

- Insurance brokers (see 6231 Insurance agents and brokers)
- Insurance, real estate and financial brokerage managers (see 0121 Insurance, real estate and financial brokerage managers)
- Securities agents, investment dealers and brokers (see 1113 Securities agents, investment dealers and brokers)

*Main duties*

Customs brokers perform some or all of the following duties:

- Prepare and process import/export documents and other forms on behalf of clients according to customs regulations, laws and procedures
- Sign import/export documents on behalf of client, using power of attorney
- Arrange for payment of duties, taxes, storage and transportation of imported goods and bonds to cover duty goods
- Quote duty and tax rates on commodities for clients
- Provide advice to clients on export and import restrictions, tariff systems, letters of credit, insurance requirements and other custom related matters
- May represent client before administrative tribunals or in other dealings with government officials.

Shipbrokers perform some or all of the following duties:

- Buy and sell cargo space on ships on behalf of individuals, companies and governments
- Consult trade publications and other sources to provide information to clients on available cargo space, destinations, rates and departure locations and times, and arrange ship charters for clients

- Negotiate rates and terms and prepare contracts and other papers
- Buy and sell ships, yachts and other watercraft on behalf of clients
- Inspect vessels, explain features and negotiate price when purchasing or selling for clients
- Arrange for insurance coverage for cargo or for ships
- Arrange for registration and licensing of ships.

*Employment requirements*

- A customs broker licence, issued by the Canada Border Services Agency, is required for an individual or company to operate a customs brokerage business.
- Completion of a one- or two-year college program in mechanical engineering technology is usually required for mechanical engineering technicians.
- Completion of a two- or three-year college program in mechanical engineering technology is usually required for mechanical engineering technologists.
- Correspondence courses from the Institute of Chartered Shipbrokers are available for shipbrokers.
- Customs brokers require several years of on-the-job training and completion of a customs brokers training program through the International Federation of Customs Brokers Association.
- Shipbrokers selling cargo space on ships usually require several years of on-the-job training or related experience such as shipping company scheduling experience. Shipbrokers selling watercraft usually require in-depth experience with, and knowledge of, various watercraft.

*Additional information*

- There is no mobility between the different types of brokers in this unit group.

## 14 Office support occupations

This major group comprises office support occupations usually requiring completion of secondary school. It includes general office workers; office equipment operators; financial, insurance and related administrative support workers; and library, correspondence and other clerks.

## 141 General office workers

This minor group includes general office support workers, receptionists, personnel clerks and court clerks. They are employed by hospitals and medical, dental and other offices; in personnel departments; by federal, provincial and municipal courts; and in offices throughout the public and private sectors.

## 1411 General office support workers

General office support workers prepare correspondence, reports, statements and other material, operate office equipment, answer telephones, verify, record and process forms and documents such as contracts and requisitions and perform general clerical duties according to established procedures. They are employed in offices throughout the public and private sectors.

*Inclusion(s)*

- course co-ordinator

*Illustrative example(s)*

- administrative clerk
- aircraft records clerk
- file and classification clerk
- filing clerk
- general office worker
- medical records clerk
- office assistant
- office clerk
- records filing-system clerk
- technical records clerk

- ward clerk - hospital
- warranty clerk

*Exclusion(s)*

- Accounting and related clerks (see 1431 Accounting and related clerks)
- Administrative assistants (see 1241 Administrative assistants)
- Administrative officers (see 1221 Administrative officers)
- Court clerks (see 1416 Court clerks)
- Data entry clerks (see 1422 Data entry clerks)
- Personnel clerks (see 1415 Personnel clerks)
- Receptionists (see 1414 Receptionists)
- Records management technicians (see 1253 Records management technicians)
- Supervisors, general office and administrative support workers (see 1211 Supervisors, general office and administrative support workers)

*Main duties*

General office support workers perform some or all of the following duties:

- Prepare correspondence, reports, statements, forms, presentations, applications and other documents from notes or dictaphone
- Respond to telephone, in person or electronic enquiries or forward to appropriate person
- Provide general information to staff, clients and the public regarding company or program rules, regulations and procedures
- Photocopy and collate documents for distribution, mailing and filing
- Sort and file documents according to established filing systems, locate and retrieve documents from files as requested and maintain records of filed and removed materials
- Maintain and prepare reports from manual or electronic files, inventories, mailing lists and databases
- Process incoming and outgoing mail, manually or electronically
- Send and receive messages and documents using fax machine or electronic mail
- Assist with administrative procedures such as budget submissions, contracts administration and work schedules
- Maintain inventory of office supplies, order supplies as required and arrange for servicing of office equipment
- May perform basic bookkeeping tasks such as preparing invoices and bank deposits
- May sort, process and verify receipts, expenditures, forms and other documents
- May organize the flow of work for other office support workers.

*Employment requirements*

- Some secondary school education may be required.
- Some secondary school education may be required.

*Additional information*

- Progression to officer level positions is possible with additional training and experience.
- Progression to supervisory or office management positions is possible with experience.

## 1414 Receptionists

Receptionists greet people arriving at offices, hospitals and other establishments, direct visitors to appropriate person or service, answer and forward telephone calls, take messages, schedule appointments and perform other clerical duties. They are employed by hospitals, medical and dental offices and throughout the public and private sectors. Telephone operators are included in this group.

*Inclusion(s)*

- mail and message distribution clerk
- medical office assistant

*Illustrative example(s)*
- answering service operator
- appointment clerk
- business receptionist
- dental receptionist
- hospital admitting clerk
- medical receptionist
- office reception clerk
- receptionist
- switchboard operator
- telephone operator
- telephone service assistant
- telereceptionist
- toll operator

*Exclusion(s)*
- 911 dispatchers (see 1525 Dispatchers)
- Hotel front desk clerks (see 6525 Hotel front desk clerks)
- Other customer and information services representatives (see 6552 Other customer and information services representatives)
- Supervisors, general office and administrative support workers (see 1211 Supervisors, general office and administrative support workers)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:
- Receptionists greet people coming into offices and other establishments, direct them to the appropriate contacts or services, provide general information in person and by phone, and may perform clerical duties and maintain front desk security and security access lists.
- Medical and dental receptionists greet patients, schedule appointments, using manual or computerized systems, receive and record payment for services, and direct patients to appropriate areas.
- Hospital admitting clerks interview patients to obtain and process information required to provide hospital and medical services.
- Telephone operators operate telephone systems to advance and complete customers' telephone calls such as long distance, pay telephone, mobile radio/telephone and person to person calls, arrange teleconferences, provide relay phone service to persons with disabilities, and may calculate and record billing information.
- Switchboard operators operate a telephone system or switchboard to answer, screen and forward telephone calls, take messages and provide information as required, and may perform clerical duties.
- Answering service operators answer telephones and record and relay messages.
- Reception desk clerks in a variety of institutional and commercial settings direct customers to appropriate areas, record bookings, handle credit card checks, receive payment, issue receipts, arrange tour reservations and deal with emergency situations.

*Employment requirements*
- Completion of secondary school is usually required.
- Completion of secondary school or college business or commercial courses is usually required.

*Additional information*
- Progression to supervisory positions is possible with experience.
- Some receptionists are required to be bilingual or multilingual to perform their duties.

## 1415 Personnel clerks

Personnel clerks assist personnel officers and human resources specialists and compile, maintain and process information relating to staffing, recruitment, training, labour relations, performance evaluations and classifications. They are employed in personnel departments throughout the private and public sectors.

*Illustrative example(s)*
- classification clerk - human resources
- employment clerk
- human resources assistant
- human resources clerk
- labour relations clerk
- personnel services clerk
- staffing clerk
- training clerk

*Exclusion(s)*
- Human resources and recruitment officers (see 1223 Human resources and recruitment officers)
- Human resources professionals (see 1121 Human resources professionals)
- Payroll clerks (see 1432 Payroll administrators)
- Supervisors, general office and administrative support workers (see 1211 Supervisors, general office and administrative support workers)

*Main duties*

Personnel clerks perform some or all of the following duties:
- Process, verify and register documentation relating to personnel activities such as staffing, recruitment, training, grievances, performance evaluations and classifications
- Maintain and update manual and computerized filing and registration systems, and compile and prepare reports and documents relating to personnel activities
- Respond to telephone and written enquiries from staff and the general public regarding personnel matters
- Arrange for advertising or posting of job vacancies, assist in screening and rating of job applicants, and conduct reference checks
- Administer and score employment tests, such as keyboarding and proofreading tests
- Arrange for in-house and external training activities.

*Employment requirements*
- Completion of secondary school is usually required.
- Completion of secondary school is usually required.
- On-the-job training may be provided.

*Additional information*
- Progression to officer level positions is possible with additional training and experience.
- Progression to supervisory positions is possible with experience.

## 1416 Court clerks

This unit group includes those who perform support functions in courts of law, such as calling court to order, preparing court dockets and maintaining exhibits. Court clerks are employed by federal, provincial and municipal courts.

*Illustrative example(s)*
- court clerk
- court clerk-crier
- criminal court clerk
- judicial clerk
- provincial court clerk

*Exclusion(s)*
- Court officers and justices of the peace (see 1227 Court officers and justices of the peace)
- Court reporters, medical transcriptionists and related occupations (see 1251 Court reporters, medical transcriptionists and related occupations)

*Main duties*

Court clerks perform some or all of the following duties:

- Call courts of law to order, read charges, take pleas from defendants, swear in witnesses and perform other clerical functions in the courtrooms
- Prepare court files, court dockets and other documents
- Record main court proceedings, including pleas, names of witnesses, dates, times and rulings
- Manage care and custody of court exhibits
- Prepare documents for and participate in jury selection
- Update and maintain court office paper and electronic indexes and files on actions taken by court or in response to court decisions
- Receive, disburse and account for fines, fees and trust monies
- Assist the public in court offices.

*Employment requirements*

- Completion of college or other courses in personnel administration may be required.
- Some clerical experience may be required.

*Additional information*

- Progression to supervisory or court officer positions is possible with experience.

## 142 Office equipment operators

This minor group includes data entry clerks, desktop publishing operators and those in related occupations. They are employed by typesetting firms, commercial printing companies, publishing and printing companies and various establishments that have in-house printing departments; and throughout the public and private sectors.

### 1422 Data entry clerks

Data entry clerks input coded, statistical, financial and other information into computerized databases, spreadsheets or other templates using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools. They are employed in the private and public sectors.

*Illustrative example(s)*

- data control clerk
- data entry operator
- data input clerk
- data processor
- payment entry clerk

*Exclusion(s)*

- General office support workers (see 1411 General office support workers)
- Supervisors, general office and administrative support workers (see 1211 Supervisors, general office and administrative support workers)

*Main duties*

Data entry clerks perform some or all of the following duties:

- Receive and register invoices, forms, records and other documents for data capture
- Input data into computerized databases, spreadsheets or other templates using a keyboard, mouse, or optical scanner, speech recognition software or other data entry tools
- Import and/or export data between different kinds of software
- Verify accuracy and completeness of data
- Identify, label and organize electronic storage media
- Maintain libraries of electronic storage media.

*Employment requirements*

- Completion of secondary school is required.

- On-the-job training is provided.

*Additional information*

- Progression to senior positions is possible with experience.

## 1423 Desktop publishing operators and related occupations

Desktop publishing operators use computers to enter copy into a typesetting system or operate typesetting output equipment to produce text that is ready to print. They are employed by firms that specialize in typesetting, commercial printing companies, publishing and printing companies and various establishments in the public and private sectors that have in-house printing departments.

*Inclusion(s)*

- terminal operator

*Illustrative example(s)*

- braille keyboard operator
- compositor - typesetting
- computer typesetter
- copy marker - typesetting
- desktop compositor
- desktop publishing (DTP) operator
- input operator - typesetting
- markup person
- output operator - typesetting
- photocomposition typesetter
- phototypesetter operator
- typographer

*Exclusion(s)*

- Desktop publishing operator supervisors (see 1211 Supervisors, general office and administrative support workers)
- Graphic arts copy stylists and paste-up artists (see 5223 Graphic arts technicians)
- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)
- Pre-flight and file preparation operators (see 9472 Camera, platemaking and other prepress occupations)
- Proofreaders (see 1452 Correspondence, publication and regulatory clerks)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Desktop publishing operators operate desktop publishing software and equipment to design, lay out and produce camera-ready copy and may perform pre-flight operator duties.
- Markup persons mark copy with computer codes and typographic instructions before it is typeset.
- Typesetting input operators input copy, codes or commands and subsequent corrections into typesetting device or system; operate media conversion equipment to process and format copy transmitted through telecommunications.
- Typesetting output operators operate and tend typesetting output devices, load and process photosensitive material and perform routine maintenance.

*Employment requirements*

- College or other courses in data entry may be required.
- Completion of secondary school may be required.

*Additional information*

- Progression to supervisory positions is possible through experience.

## 143 Financial, insurance and related administrative support workers

This minor group includes accounting and related clerks, payroll clerks, banking, insurance and other financial clerks and collectors. They are employed by payroll administration companies; banks, credit companies, private and public insurance establishments, investment firms and other financial establishments; collection agencies, utility companies, department stores, loan companies, credit unions and financial and licensing departments within governments; and throughout the public and private sectors.

### 1431 Accounting and related clerks

Accounting and related clerks calculate, prepare and process bills, invoices, accounts payable and receivable, budgets and other financial records according to established procedures. They are employed throughout the private and public sectors.

*Inclusion(s)*
- wharf clerk

*Illustrative example(s)*
- accounting clerk
- accounts payable clerk
- accounts receivable clerk
- audit clerk
- billing clerk
- budget clerk
- costing clerk
- deposit clerk
- finance clerk
- freight-rate clerk
- income tax return preparer
- invoice clerk
- ledger clerk
- tax clerk

*Exclusion(s)*
- Accounting technicians and bookkeepers (see 1311 Accounting technicians and bookkeepers)
- Banking, insurance and other financial clerks (see 1434 Banking, insurance and other financial clerks)
- Collectors (see 1435 Collectors)
- Financial auditors and accountants (see 1111 Financial auditors and accountants)
- Payroll clerks (see 1432 Payroll administrators)
- Supervisors, finance and insurance office workers (see 1212 Supervisors, finance and insurance office workers)

*Main duties*

Accounting and related clerks perform some or all of the following duties:
- Calculate, prepare and issue documents related to accounts such as bills, invoices, inventory reports, account statements and other financial statements using computerized and manual systems
- Code, total, batch, enter, verify and reconcile transactions such as accounts payable and receivable, payroll, purchase orders, cheques, invoices, cheque requisitions, and bank statements in a ledger or computer system
- Compile budget data and documents based on estimated revenues and expenses and previous budgets
- Prepare period or cost statements or reports
- Calculate costs of materials, overhead and other expenses based on estimates, quotations, and price lists
- Respond to customer inquiries, maintain good customer relations and solve problems
- Perform related clerical duties, such as word processing, maintaining filing and record systems, faxing and photocopying.

*Employment requirements*

- Completion of a college program in graphic arts, or other training in typography, computer typesetting or desktop publishing, is usually required.
- Completion of secondary school is required.
- Completion of secondary school is usually required.

*Additional information*

- Progression to supervisory or skilled financial occupations, such as accounts payable supervisor, bookkeeper or office manager is possible with additional training and experience.

## 1432 Payroll administrators

Payroll administrators collect, verify and process payroll information, determine pay and benefit entitlements for employees, maintain accurate payroll records, and provide payroll information within a department, company or other establishment. They are employed by payroll administration companies and by establishments throughout the public and private sectors.

*Illustrative example(s)*

- benefits officer - payroll administration
- pay advisor
- pay and benefits administrator
- pay and benefits clerk
- pay clerk
- payroll clerk
- payroll officer
- salary administration officer

*Exclusion(s)*

- Human resources and recruitment officers (see 1223 Human resources and recruitment officers)
- Personnel clerks (see 1415 Personnel clerks)
- Supervisors of payroll clerks (see 1212 Supervisors, finance and insurance office workers)

*Main duties*

Payroll administrators perform some or all of the following duties:

- Maintain and update employee information, such as records of employee attendance, leave and overtime to calculate pay and benefit entitlements, in Canadian and other currencies, using manual or computerized systems
- Prepare and verify statements of earnings for employees, indicating gross and net salaries and deductions such as taxes, union dues, garnishments and insurance and pension plans
- Prepare, verify and process all employee payroll related payments, including regular pay, benefit payments, and special payments such as bonuses and vacation pay
- Complete, verify and process forms and documentation for administration of benefits such as pension plans, leaves, share savings, employment and medical insurance
- Prepare payroll related filings and supporting documentation, such as year-end tax statements, pension, Records of Employment and other statements
- Provide information on payroll matters, benefit plans and collective agreement provisions
- Compile, review, and monitor statistical reports, statements, and summaries related to pay and benefits accounts
- Prepare and balance period-end reports and reconcile issued payrolls to bank statements
- Identify and resolve payroll discrepancies
- May be responsible for the development and/or implementation of payroll policies, procedures or processes

*Employment requirements*

- A National certification for Respiratory Therapists is available for therapists working non-regulated jurisdictions (Prince Edward Island, British Columbia, the Northwest Territories, the Yukon and Nunavut)

- Completion of college or other courses certified by the Certified General Accountants Association of Canada, Canadian Securities Institute or Canadian Bookkeepers Association may be required.
- Completion of secondary school is usually required.
- Some accounting clerks must be bondable.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 1434 Banking, insurance and other financial clerks

Banking, insurance and other financial clerks compile, process and maintain banking, insurance and other financial information. They are employed by banks, credit companies, private and public insurance establishments, investment firms and other financial establishments throughout the private and public sectors.

*Illustrative example(s)*

- actuarial clerk
- bank clerk
- credit clerk
- dental claims clerk
- dividend calculation clerk
- insurance clerk - financial sector
- insurance rater
- ledger control clerk
- loan clerk - financial sector
- mortgage clerk
- premium rater - insurance
- real estate clerk
- securities clerk - financial sector

*Exclusion(s)*

- Accounting technicians and bookkeepers (see 1311 Accounting technicians and bookkeepers)
- Customer services representatives - financial institutions (see 6551 Customer services representatives - financial institutions)
- Supervisors, finance and insurance office workers (see 1212 Supervisors, finance and insurance office workers)

*Main duties*

Bank clerks perform some or all of the following duties:

- Compile records of deposits, withdrawals, loan and mortgage payments, cheques and purchase, sale and exchange of securities
- Process loan and mortgage applications, loan and mortgage payments, retirement savings plan applications, term deposits, drafts and money orders
- Verify and balance automatic teller machine transactions and ledger entries, calculate service charges and interest payments and notify customers regarding account discrepancies and captured bank cards
- Answer enquiries and provide information on banking products, policies and services
- May sell drafts, money orders, travellers' cheques and foreign currency, rent safety deposit boxes and open and close savings, chequing and other accounts.

Insurance clerks perform some or all of the following duties:

- Process enrolments, cancellations, claims transactions, policy changes and premium payments
- Review insurance applications and verify insurance coverage, premiums paid and other insurance information
- Calculate insurance premiums, pension benefits and annuity payments
- Compile and maintain claims data, rates and insurance data and records
- Answer enquiries and provide information on insurance products, policies and services.

Other financial clerks in this unit group perform some or all of the following duties:

- Compile and maintain rental, sale and other real estate listings
- Compile and maintain stock, bond and other securities listings
- Sort, verify and process real estate, securities and other financial transactions
- Answer enquiries and reply to correspondence.

*Employment requirements*

- Completion of college or other courses in accounting, bookkeeping or payroll administration or Experience in payroll administration is usually required.
- Completion of secondary school is required.
- Payroll association certification may be required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 1435 Collectors

Collectors collect payments on overdue accounts and bad cheques and locate debtors to make collection arrangements. They are employed by collection agencies, utility companies, department stores, loan companies, banks and credit unions, and by financial and licensing departments within governments.

*Illustrative example(s)*

- bill collector
- collection clerk
- collection officer (except taxation)
- collections investigation officer
- collector
- credit and collection clerk
- locator - collection
- skip tracer - collection

*Exclusion(s)*

- Accounts receivable clerks (see 1431 Accounting and related clerks)
- Collections supervisors (see 1212 Supervisors, finance and insurance office workers)
- Tax collection officers (see 1228 Employment insurance, immigration, border services and revenue officers)

*Main duties*

Collectors perform some or all of the following duties:

- Notify debtors of overdue payments and accounts by telephone, mail, and registered mail, and continue the notification process if reply is not received
- Resolve collection issues by making payment arrangements by telephone or visit to debtor
- Recommend further action or discontinuation of service in cases where payment is not forthcoming
- Trace and locate debtors, and may contact debtors' friends, neighbours, relatives and employers to obtain information
- Answer correspondence, prepare reports and maintain records and files related to collection work
- May work with on-line accounts and systems.

*Employment requirements*

- A business college diploma may be required.
- A business college diploma may be required.
- Completion of secondary school is required.
- On-the-job training and short-term training courses or programs specific to the financial establishment are usually required.

*Additional information*

- Progression to senior or supervisory positions is possible with experience.

## 145 Library, correspondence and other clerks

This minor group includes library assistants and clerks, correspondence, publication and regulatory clerks, survey interviewers and statistical clerks. They are employed by libraries and other establishments with library services; newspapers, periodicals and publishing firms; and by market research and polling firms, government departments and agencies, utility companies, contact centres and other establishments throughout the public and private sectors.

### 1451 Library assistants and clerks

Library assistants and clerks issue and receive library materials, sort and shelve books and provide general library information to users. They also perform clerical functions. Library clerks are employed by libraries or other establishments with library services.

*Illustrative example(s)*
- circulation clerk - library
- interlibrary loan clerk
- library assistant
- library page
- periodicals clerk
- reference clerk
- shelving clerk - library

*Exclusion(s)*
- Librarians (see 5111 Librarians)
- Library technicians (see 5211 Library and public archive technicians)
- Supervisors, library, correspondence and related information workers (see 1213 Supervisors, library, correspondence and related information workers)

*Main duties*

Library assistants and clerks perform some or all of the following duties:
- Issue and receive library books and other materials
- Sort and reshelve books and other library materials
- Perform clerical activities such as manual and electronic filing and record payments received
- Maintain journal subscriptions
- Assist library users in accessing library materials and online resources, and in making interlibrary loans.

*Employment requirements*
- A period of on-the-job training is often provided for collection clerks and collection officers.

*Additional information*
- Progression to more senior positions is possible with experience and post-secondary education related to library science.

### 1452 Correspondence, publication and regulatory clerks

Clerks in this unit group write correspondence, proofread material for accuracy, compile material for publication, verify, record and process forms and documents, such as applications, licences, permits, contracts, registrations and requisitions, and perform other related clerical duties in accordance with established procedures, guidelines and schedules. They are employed by newspapers, periodicals, publishing firms and by establishments throughout the private and public sectors.

*Inclusion(s)*
- archives clerk
- place holder
- press clipper

- press reader
- tests clerk

*Illustrative example(s)*

- advertising clerk
- application clerk
- authorization clerk
- by-law clerk
- classified advertising clerk
- contract clerk
- correspondence clerk
- customs clerk
- directory compiler
- documentation clerk
- editorial assistant
- licence clerk
- passport clerk
- proofreader
- publication clerk
- readers
- registration clerk
- registry clerk
- translation clerk

*Exclusion(s)*

- Professional occupations in advertising, marketing and public relations (see 1123 Professional occupations in advertising, marketing and public relations)
- Supervisors, library, correspondence and related information workers (see 1213 Supervisors, library, correspondence and related information workers)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Classified advertising clerks receive customers' orders for classified advertising, write and edit copy, calculate advertising costs and bill customers.
- Correspondence clerks write business and government correspondence such as replies to requests for information and assistance, damage claims, credit and billing enquiries and service complaints.
- Editorial assistants and publication clerks assist in the preparation of periodicals, advertisements, catalogues, directories and other material for publication; proofread material; verify facts and conduct research.
- Proofreaders read material prior to publication to detect and mark for correction any grammatical, typographical or compositional errors within tight deadlines.
- Readers and press clippers read newspapers, magazines, press releases and other publications to locate and file articles of interest to staff and clients.
- Regulatory clerks compile, verify, record and process applications, licences, permits, contracts, registrations, requisitions and other forms and documents in accordance with established procedures using processing systems; and authorize and issue licences, permits, registration papers, reimbursements and other material after requested documents have been processed and approved.

*Employment requirements*

- A collections licence issued by the province or territory of employment is usually required.
- Completion of secondary school is required.
- Completion of secondary school is usually required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 1454 Survey interviewers and statistical clerks

Survey interviewers contact individuals to gather information for market research, public opinion polls or election and census enumeration. Statistical clerks code and compile interview and other data into reports, lists, directories and other documents. Workers in this unit group are employed by market research and polling firms, government departments and agencies, utility companies, contact centres and other establishments. This unit group also includes clerks who observe and record information on traffic flow.

*Inclusion(s)*

- meter reader

*Illustrative example(s)*

- census enumerator
- coding clerk - statistics
- election enumerator
- interview clerk
- poll clerk
- public opinion interviewer
- statistical clerk
- survey interviewer
- telephone survey clerk

*Exclusion(s)*

- Correspondence, publication and regulatory clerks (see 1452 Correspondence, publication and regulatory clerks)
- Other customer and information services representatives (see 6552 Other customer and information services representatives)
- Statistical officers and related research support occupations (see 1254 Statistical officers and related research support occupations)
- Telemarketers (see 6623 Other sales related occupations)

*Main duties*

Survey interviewers perform some or all of the following duties:

- Contact individuals by telephone or in person and explain the purpose of the interview
- Ask questions following the outlines of questionnaires and surveys
- Record responses on paper or enter responses directly into a computer database through computer-assisted interviewing systems.

Statistical clerks perform some or all of the following duties:

- Check information gathered for completeness and accuracy
- Code information according to established coding manuals and enter data into statistical-based computer programs
- Conduct routine statistical analysis of data
- Compile interview and other data into reports and lists.

*Employment requirements*

- Additional courses or a diploma in writing, journalism or a related field may be required.
- Completion of secondary school may be required.
- Experience in the operation of a computer may be required.
- Previous clerical or administrative experience may be required.

## 15 Distribution, tracking and scheduling co-ordination occupations

This major group comprises distribution, tracking and scheduling co-ordination occupations usually requiring completion of secondary school. It includes mail, message distribution, supply chain logistics, tracking and scheduling co-ordination occupations.

## 151 Mail and message distribution occupations

This minor group includes mail, postal and related workers, letter carriers, couriers, messengers and door-to-door distributors. They are employed by Canada Post Corporation, courier and parcel express companies and establishments throughout the public and private sectors.

### 1511 Mail, postal and related workers

This unit group includes workers who process and sort mail and parcels in post offices, mail processing plants and internal mail rooms, and clerks who serve customers and record transactions at sales counters and postal wickets. Mail, postal and related workers are employed by Canada Post Corporation, courier and parcel express companies and establishments throughout the public and private sectors.

*Inclusion(s)*

- bursting machine tender

*Illustrative example(s)*

- bus parcel express clerk
- express mail service clerk
- mail clerk
- mail room clerk
- mail sorter
- postal clerk
- postal counter clerk
- postal wicket clerk
- railway mail clerk

*Exclusion(s)*

- Couriers, messengers and door-to-door distributors (see 1513 Couriers, messengers and door-to-door distributors)
- Letter carriers (see 1512 Letter carriers)
- Supervisors, mail and message distribution occupations (see 1214 Supervisors, mail and message distribution occupations)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Postal workers calculate and affix the correct postage on letters, parcels and registered mail and receive payment from customers; sell stamps, prepaid mail and courier envelopes and money orders; route mail to the proper delivery stream; sign or obtain signatures from recipients for registered or special delivery mail and keep records; answer inquiries and complete forms regarding change of address, theft or loss of mail; and record and balance daily transactions.
- Mail sorters sort mail according to destination; bundle, label, bag and route sorted mail to the proper delivery stream; and search directories to find the correct address for redirected mail.
- Mailroom clerks receive, process, sort and distribute incoming and outgoing mail, faxes, messages and courier packages manually or electronically; maintain address databases and produce personalized mailings; print and photocopy material, and address and stuff envelopes; weigh outgoing mail, calculate and affix proper postage, and bundle by postal code; and may operate and maintain print shop and mailing house equipment.

*Employment requirements*

- On-the-job training is usually provided.

*Additional information*

- Progression to supervisory or facility management positions is possible with additional training or experience.

## 1512 Letter carriers

Letter carriers sort and deliver mail, record delivery of registered mail and collect money for cash-on-delivery parcels. Letter carriers are employed by Canada Post Corporation.

*Illustrative example(s)*
- letter carrier
- postman/woman
- rural mail carrier

*Exclusion(s)*
- Couriers, messengers and door-to-door distributors (see 1513 Couriers, messengers and door-to-door distributors)
- Letter carrier supervisors (see 1214 Supervisors, mail and message distribution occupations)
- Mail, postal and related workers (see 1511 Mail, postal and related workers)

*Main duties*

Letter carriers perform some or all of the following duties:
- Organize mail by address and load into mailbag
- Deliver letters, small parcels and other printed matter along established routes
- Deliver telegrams, special delivery and express mail
- Collect payment for cash-on-delivery service
- Record delivery of registered mail
- Leave notices indicating that items could not be delivered and the location where they can be picked up
- Return undeliverable mail to postal station.

*Employment requirements*
- Completion of secondary school and some college office administration courses may be required.
- May require driver's licence.

*Additional information*
- Progression to supervisory positions is possible with additional training or experience.

## 1513 Couriers, messengers and door-to-door distributors

Couriers, messengers and door-to-door distributors pick up and deliver letters, parcels, packages, newspapers, flyers and other items within and between establishments. They are employed by courier service companies and other establishments throughout the private and public sectors.

*Illustrative example(s)*
- bank messenger
- courier
- delivery person - courier service
- door-to-door distributor
- flyer distributor - courier service
- newspaper carrier
- runner - courier service

*Exclusion(s)*
- Delivery and courier service drivers (see 7514 Delivery and courier service drivers)
- Letter carriers (see 1512 Letter carriers)
- Supervisors, mail and message distribution occupations (see 1214 Supervisors, mail and message distribution occupations)

*Main duties*

Couriers, messengers and door-to-door distributors perform some or all of the following duties:

- Pick up messages, letters, envelopes, parcels, airline tickets, legal documents, packages, bonds, cheques, securities and other items from customers, and hand-deliver them to addresses within an establishment or in other establishments by walking or cycling within prescribed time periods
- Collect payment for items delivered
- Keep record of items received and delivered using delivery information acquisition devices
- Deliver newspapers, flyers, handbills, telephone directories and similar items to residences and businesses.

*Employment requirements*

- Eligibility for bonding may be required.
- Secondary school education may be required.
- Some secondary school education is required.
- Two weeks to one month of training is provided by Canada Post Corporation.

*Additional information*

- Progression to supervisory positions may be possible with experience.
- There is some mobility into other delivery occupations such as delivery drivers.
- There may be mobility to clerical occupations within the company.

## 152 Supply chain logistics, tracking and scheduling co-ordination occupations

This minor group includes shippers, receivers, storekeepers, partspersons, production logistics co-ordinators, purchasing and inventory control workers, dispatchers and transportation route and crew schedulers. They are employed by utility, manufacturing, construction, forestry and mining companies; retail, wholesale, commercial, industrial, transportation and other establishments; warehouses, repair shops and hospitals; printing and publishing companies; police, fire and other emergency services; taxi, delivery and courier services; and throughout the public and private sectors.

## 1521 Shippers and receivers

Shippers and receivers ship, receive and record the movement of parts, supplies, materials, equipment and stock to and from an establishment. They are employed in the public sector and by retail and wholesale establishments, manufacturing companies, and other commercial and industrial establishments.

*Illustrative example(s)*

- freight receiver
- freight shipper
- import freight clerk
- receiver
- shipper
- shipper-receiver
- shipping agent
- shipping and receiving clerk
- supply chain assistant

*Exclusion(s)*

- Exports clerk (see 1452 Correspondence, publication and regulatory clerks)
- Import clerk (see 1452 Correspondence, publication and regulatory clerks)
- Material handlers (see 7452 Material handlers)
- Purchasing and inventory control workers (see 1524 Purchasing and inventory control workers)
- Storekeepers and partspersons (see 1522 Storekeepers and partspersons)
- Supervisors, supply chain, tracking and scheduling co-ordination occupations (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Shippers and receivers perform some or all of the following duties:

- Determine method of shipment and arrange shipping; prepare bills of lading, customs forms, invoices and other shipping documents manually or by computer
- Assemble containers and crates, record contents manually or by computer, pack goods to be shipped and affix identifying information and shipping instructions
- Oversee loading and unloading of goods from trucks or other conveyances
- Inspect and verify incoming goods against invoices or other documents, record shortages and reject damaged goods
- Unpack, code and route goods to appropriate storage areas
- Maintain internal, manual or computerized record-keeping systems
- May operate forklift, hand truck or other equipment to load, unload, transport and store goods.

*Employment requirements*

- Ability to navigate streets and follow directions is usually required.
- Completion of secondary school is usually required.
- Experience in a related clerical occupation or as a warehouse worker may be required.
- Physical fitness is required for some occupations in this unit group.

*Additional information*

- Progression to supervisory positions is possible with additional training or experience.

## 1522 Storekeepers and partspersons

Storekeepers and partspersons sort, store and issue parts and supplies for use by the establishment in which they work and for sale to the public. They are employed by manufacturing companies, warehouses, retail and wholesale establishments, mining, forestry and construction companies, repair shops, hospitals and other establishments.

*Inclusion(s)*

- parts technician

*Illustrative example(s)*

- ammunition storekeeper
- automotive partsperson - retail
- material keeper
- medical supply clerk
- motor vehicle parts clerk
- parts clerk
- parts supplier
- partsperson
- ship storeman/woman
- storekeeper
- tool room attendant

*Exclusion(s)*

- Parts clerks supervisors (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)
- Purchasing and inventory control workers (see 1524 Purchasing and inventory control workers)
- Shippers and receivers (see 1521 Shippers and receivers)

*Main duties*

Storekeepers and partspersons perform some or all of the following duties:

- Receive and sort incoming parts and supplies
- Store items in an orderly and accessible manner in a warehouse, tool room, supply room or other area
- Process incoming requisitions and issue or distribute parts and supplies for internal usage
- Maintain records of orders and the amount, kind and location of parts and supplies on hand using manual or computerized inventory system
- Prepare requisition orders to replenish parts and supplies

- Sell spare and replacement parts for motor vehicles, machinery and equipment in a retail setting
- Advise retail customers or internal users on appropriateness of parts, supplies or materials requested.
- Partspersons may specialize in a particular line of parts such as automotive parts, recreational vehicle parts, marine parts, heavy equipment parts, agricultural machinery parts, heating, ventilating and air conditioning parts or refrigeration parts.

*Employment requirements*

- A driver's licence may be required.
- A forklift certificate may be required.
- Completion of a three-year apprenticeship program or Completion of specialized training in high school and a one-year college program for partspersons may be required.
- Completion of secondary school is usually required.
- Trade certification for partspersons is available, but voluntary, in all provinces and territories.

*Additional information*

- Progression to supervisory positions is possible with additional training or experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 1523 Production logistics co-ordinators

Production logistics co-ordinators co-ordinate and expedite the flow of work and materials within an establishment, prepare work and production schedules and monitor the progress of production and construction projects. They are employed by manufacturing and construction companies, printing and publishing companies and other industrial establishments.

*Inclusion(s)*

- material estimator
- traffic clerk - broadcasting

*Illustrative example(s)*

- expediter
- production clerk
- production co-ordinator
- production scheduler
- scheduling clerk
- supply chain co-ordinator - production
- traffic control clerk

*Exclusion(s)*

- Purchasing and inventory control workers (see 1524 Purchasing and inventory control workers)
- Shippers and receivers (see 1521 Shippers and receivers)
- Storekeepers and partspersons (see 1522 Storekeepers and partspersons)
- Supervisors, supply chain, tracking and scheduling co-ordination occupations (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Production logistics co-ordinators perform some or all of the following duties:

- Compile detailed worksheets and specifications from customer's order
- Estimate type and quantity of materials and labour required for production, construction and other projects
- Consult with production supervisor to schedule production runs in a cost and time-efficient manner
- Meet regularly with other production clerks, warehouse, production and construction supervisors and purchasing and inventory clerks to co-ordinate activities between warehouses and production floors or construction sites
- Co-ordinate and monitor logistics of the movement of parts, supplies and materials within an establishment and ensure that supplies, materials and products are shipped and received on schedule

- Prepare and maintain various reports on the progress of work, materials used, rates of production and other production information, using manual or computerized systems.

*Employment requirements*

- Experience in a related clerical occupation, or as a warehouse worker, may be required for partspersons.
- Red Seal endorsement is also available to qualified partspersons upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 1524 Purchasing and inventory control workers

Purchasing and inventory control workers process purchasing transactions and maintain inventories of materials, equipment and stock. They are employed by retail and wholesale establishments, manufacturing companies, government agencies and other establishments.

*Inclusion(s)*

- inventory auditor

*Illustrative example(s)*

- inventory analyst
- inventory clerk
- inventory control clerk
- inventory planner
- procurement clerk
- purchasing clerk
- purchasing clerk assistant

*Exclusion(s)*

- Purchasing agents and officers (see 1225 Purchasing agents and officers)
- Retail and wholesale buyers (see 6222 Retail and wholesale buyers)
- Storekeepers and partspersons (see 1522 Storekeepers and partspersons)
- Supervisors of purchasing and inventory clerks (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Purchasing control workers perform some or all of the following duties:

- Review requisition orders for accuracy and verify that materials, equipment and stock are not available from current inventories
- Source and obtain price quotations from catalogues and suppliers and prepare purchase orders
- Calculate cost of orders and charge or forward invoices to appropriate accounts
- Process purchases within purchasing authority
- Contact suppliers to schedule deliveries and to resolve shortages, missed deliveries and other problems
- Prepare and maintain purchasing files, reports and price lists.

Inventory control workers perform some or all of the following duties:

- Monitor inventory levels as materials, equipment and stock are issued, transferred within an establishment or sold to the public using manual or computerized inventory systems
- Compile inventory reports, recording the quantity, type and value of materials, equipment and stock on hand, using manual or computerized inventory systems
- Prepare requisition orders to replenish materials, equipment and stock
- Maintain stock rotation and dispose of and account for outdated stock
- Enter data for production scheduling, stock replenishment/relocation and inventory adjustments
- Reconcile physical inventories with computer counts.

*Employment requirements*

- Completion of secondary school is usually required and college may be required.
- Completion of secondary school is usually required.
- Previous clerical experience or experience as a production worker may be required.

*Additional information*

- Progression to supervisory positions or more senior occupations such as purchasing agent or retail buyer is possible with additional training or experience.
- The duties of purchasing and inventory clerks may overlap in some establishments.

## 1525 Dispatchers

Dispatchers operate radios and other telecommunication equipment to dispatch emergency vehicles and to co-ordinate the activities of drivers and other personnel. They are employed by police, fire and health departments, other emergency service agencies, taxi, delivery and courier services, trucking and utilities companies, and other commercial and industrial establishments.

*Illustrative example(s)*

- 911 dispatcher
- alarm system dispatcher
- ambulance dispatcher
- emergency vehicle dispatcher
- inbound/outbound freight co-ordinator
- mobile equipment dispatcher
- radio operator
- taxi dispatcher
- tow truck dispatcher
- truck dispatcher
- utilities maintenance crew dispatcher

*Exclusion(s)*

- Air traffic controllers and related occupations (see 2272 Air traffic controllers and related occupations)
- Bus dispatchers (see 7305 Supervisors, motor transport and other ground transit operators)
- Railway traffic controllers and marine traffic regulators (see 2275 Railway traffic controllers and marine traffic regulators)
- Supervisors of dispatchers (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Dispatchers perform some or all of the following duties:

- Receive requests for emergency assistance or service and contact ambulances, police and fire departments, tow-trucks, and utility crews
- Process and transmit information and instructions to co-ordinate the activities of vehicle operators, crews and equipment using a variety of computer-aided communications and dispatching equipment
- Dispatch personnel according to written schedules and work orders, or as required by emergency situations
- Advise vehicle operators of route and traffic problems such as construction, accidents, congestion, weather conditions, weight and size restrictions and other information
- Operate radio equipment to communicate with ships, aircraft, mining crews, offshore oil rigs, logging camps and other remote operations
- Monitor personnel workloads and locations
- Maintain vehicle operator work records using computerized or manual methods and ensure time sheets and payroll summaries are completed accurately
- Maintain computer and manual records of mileage, fuel use, repairs and other expenses, and generate reports.

*Employment requirements*

- Completion of secondary school is required.
- Courses in production and inventory management and ability to operate a computerized inventory system may be required for inventory clerks.
- Courses in purchasing management may be required for purchasing clerks.

## 1526 Transportation route and crew schedulers

Transportation route and crew schedulers prepare operational and crew schedules for transportation equipment and operating personnel. They are employed by municipal transit commissions, truck, delivery and courier companies, railways, airlines and by other transportation establishments in both the private and public sectors.

*Illustrative example(s)*

- bus scheduler
- crew scheduler - transportation
- flight crew scheduler
- schedule analyst
- schedule writer, transportation
- train scheduler
- transit scheduler
- truck scheduler

*Exclusion(s)*

- Flight schedulers managers (see 0731 Managers in transportation)
- Production schedulers in manufacturing establishments (see 1523 Production logistics co-ordinators)
- Scheduling technicians in manufacturing (see 2233 Industrial engineering and manufacturing technologists and technicians)
- Supervisors of transportation route and crew schedulers (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Transportation route and crew schedulers perform some or all of the following duties:

- Review schedule requisitions, passenger counts and cargo, running times, distances, personnel availability and other pertinent information to establish schedule parameters
- Design new or modify existing schedules using computer software or other methods
- Incorporate into route plan factors such as peak travel periods, holidays, special events and construction with emphasis on time and cost efficiency
- Assign personnel to equipment and routes and schedule work shifts
- Compile equipment and personnel records, including hours in service, distances, maintenance, repairs required and other data, to produce operating reports
- May prepare user guides and other public service information.

*Employment requirements*

- Completion of secondary school is required.
- Police and emergency dispatchers and other radio operators usually require provincial radio operator's certificates.
- Police and emergency dispatchers are required to complete formal on-the-job training. Other dispatchers usually undergo some informal on-the-job training.

*Additional information*

- Mobility between occupations in this group is limited due to the requirement of specific transportation sector experience.
- Progression to supervisory positions is possible with experience.

## 2 Natural and applied sciences and related occupations

This category includes occupations in sciences, engineering, architecture and information technology.

These occupations require post-secondary education in an appropriate scientific or technical discipline. Progression from technical to professional occupations usually requires additional education.

## 21 Professional occupations in natural and applied sciences

This major group comprises professional occupations in natural and applied sciences. It includes professionals working in the physical sciences, life sciences, and engineering fields; and as architects, urban planners, land surveyors, mathematicians, statisticians, actuaries, and computer and information systems professionals.

## 211 Physical science professionals

This minor group includes physicists, astronomers, chemists, geoscientists, oceanographers, meteorologists, climatologists and other professional occupations in physical sciences. They are employed by manufacturing, processing, telecommunications, natural resource, and consulting companies; power utilities; research, development and quality control laboratories; the media; and a wide variety of health, educational, governmental and industrial establishments; or they may be self-employed.

## 2111 Physicists and astronomers

Physicists conduct theoretical and applied research to extend knowledge of natural phenomena and to develop new processes and devices in fields such as electronics, communications, power generation and distribution, aerodynamics, optics and lasers, remote sensing, biotechnology, medicine and health. They are employed by electronic, electrical and aerospace manufacturing companies, telecommunications companies, power utilities, university and government research laboratories, hospitals and by a wide range of other processing, manufacturing, and research and consulting firms. Astronomers conduct observational and theoretical research to extend knowledge of the universe. They are employed by government and universities.

*Illustrative example(s)*
- acoustics physicist
- aerodynamicist
- aerospace research scientist
- astronomer
- astrophysicist
- atmospheric physicist
- biophysicist
- cosmologist
- electronics research scientist
- experimental physicist
- health physicist
- medical physicist
- metrologist
- nuclear physicist
- optics physicist
- physics research scientist
- plasma physicist
- radio astronomer
- remote sensing research scientist
- solid-state physicist

*Exclusion(s)*
- Architecture and science managers (see 0212 Architecture and science managers)
- Atmospheric physicists (see 2114 Meteorologists and climatologists)

- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Geophysicists and physical oceanographers (see 2113 Geoscientists and oceanographers)

*Main duties*

Physicists and astronomers perform some or all of the following duties:

- Physicists
- Design and conduct research in experimental and theoretical physics
- Carry out analysis of research data and prepare research reports
- Participate as a member of a research or development team in the design and development of experimental, industrial or medical equipment, instrumentation and procedures.
- Physicists may specialize in fields such as aeronomy and space, acoustics, atomic and molecular physics, biophysics, condensed matter or solid state physics, electromagnetics, fluids and aerodynamics, health physics, medical physics, metrology, particle physics, optics and laser physics, nuclear physics and plasma physics.
- Astronomers
- Design and conduct observational surveys, conduct detailed analyses and develop numerical models to extend knowledge of celestial bodies and cosmic radiation
- Develop or participate in the development of instrumentation and software for astronomical observation and analysis.
- Astronomers may specialize in fields such as astrophysics, observational or optical astronomy and radio astronomy.

*Employment requirements*

- On-the-job training may be provided.
- Several years of experience in an appropriate transportation sector are usually required.

*Additional information*

- Mobility between specializations within physics and within astronomy is possible with experience.
- Mobility is possible to the fields of meteorology, geophysics and other fields of science.
- Physicists may work closely with and perform some of the duties of engineers.
- Progression to management positions is possible with experience.

## 2112 Chemists

Chemists conduct research and analysis in support of industrial operations, product and process development, quality control, environmental control, medical diagnosis and treatment, biotechnology, nanotechnology and other applications. They also conduct theoretical, experimental and applied research into basic chemical and biochemical processes to create or synthesize new products and processes. Chemists are employed in research, development and quality control laboratories; chemical, petrochemical and pharmaceutical industries; mineral, metal and pulp and paper industries; and a wide variety of manufacturing, utility, health, educational and government establishments.

*Illustrative example(s)*

- agricultural chemist
- analytical chemist
- bioanalytical chemist
- biochemist
- chemist
- clinical chemist
- coatings chemist
- electrochemist
- environmental chemist
- food chemist
- inorganic chemist
- medicinal chemist

- nuclear magnetic resonance (NMR) spectroscopist
- oceanographic chemist
- organic chemist
- organic mass spectrometrist
- organometallic chemist
- pharmacological chemist
- physical chemist
- polymer chemist
- quality control chemist
- research chemist
- soil chemist
- textile chemist
- theoretical chemist

*Exclusion(s)*
- Architecture and science managers (see 0212 Architecture and science managers)
- Chemical engineers (see 2134 Chemical engineers)
- Geochemists (see 2113 Geoscientists and oceanographers)
- Metallurgists and material scientists (see 2115 Other professional occupations in physical sciences)
- Molecular biologists (see 2121 Biologists and related scientists)

*Main duties*

Chemists perform some or all of the following duties:
- Analyze, synthesize, purify, modify and characterize chemical or biochemical compounds
- Develop and conduct programs of analysis to ensure quality control of raw materials, chemical intermediates or final products
- Conduct programs of sample and data collection and analysis to identify and quantify environmental toxicants
- Conduct research to develop new chemical formulations and processes and devise new technical applications of industrial chemicals and compounds
- Conduct research to discover, develop, refine and evaluate new products such as those used in nanomedicine, nanoelectronics and other applications of chemistry
- Conduct fundamental and applied research into the synthesis and properties of chemical compounds and the mechanisms of chemical reactions
- Investigate chemical aspects of the mechanisms of drug action, the diagnosis and treatment of disease, organ function and the assessment of health
- Participate in interdisciplinary research and development projects working with chemical engineers, biologists, microbiologists, agronomists, geologists or other professionals
- Act as technical consultant in a particular field of expertise
- May participate in the commercialization of new products
- May supervise other chemists and chemical technicians and technologists.

*Employment requirements*
- A bachelor's degree in chemistry, biochemistry or a related discipline is required.
- Astronomers usually require a master's or doctoral degree in astronomy or in a related discipline.
- Physicists usually require a master's or doctoral degree in a field of physics, engineering physics, or in a related discipline.

*Additional information*
- Mobility between occupations in this group is possible with experience.
- Mobility is possible with experience, to occupations concerned with plant management, technical sales and the development and management of regulatory programs and teaching professions.

## 2113 Geoscientists and oceanographers

Geoscientists include geologists, geochemists and geophysicists who conduct programs of exploration and research to extend knowledge of the structure, composition and processes of the earth, to locate, identify and extract hydrocarbon, mineral and groundwater resources and to assess and mitigate the effects of development and waste disposal projects on the environment. Oceanographers conduct programs of exploration and research on ocean processes and phenomena, biological, chemical and physical characteristics of oceans, interactions with atmospheric and geological environments and impacts of human activity on oceans and marine ecosystems. Geoscientists are employed by petroleum and mining companies, consulting geology, geophysics and engineering firms and by governments and educational institutions, or they may be self-employed. Oceanographers are employed by governments, educational institutions and private companies engaged in exploration of seafloor deposits and seafarming areas, or they may be self-employed.

*Illustrative example(s)*

- development geologist
- environmental geologist
- exploration geologist
- geochemist
- geologist
- geophysicist
- glaciologist
- groundwater geologist
- hydrogeologist
- hydrologist
- mine geologist
- mineralogist
- oceanographer
- paleontologist
- petroleum geologist
- petrologist
- sedimentologist
- seismologist
- stratigrapher

*Exclusion(s)*

- Architecture and science managers (see 0212 Architecture and science managers)
- Biologists and related scientists (see 2121 Biologists and related scientists)
- Chemists (see 2112 Chemists)
- Geological engineers (see 2144 Geological engineers)
- Managers in natural resources production and fishing (see 0811 Managers in natural resources production and fishing)
- Physicists and astronomers (see 2111 Physicists and astronomers)

*Main duties*

Geoscientists perform some or all of the following duties:

- Conduct theoretical and applied research to extend knowledge of surface and subsurface features of the earth, its history and the operation of physical, chemical and biological systems that control its evolution
- Plan, direct and participate in geological, geochemical and geophysical field studies, drilling and geological testing programs
- Plan and conduct seismic, geodetic, electromagnetic, magnetic, gravimetric, radiometric, radar and other remote sensing programs
- Plan, direct and participate in analyses of geological, geochemical and geophysical survey data, well logs and other test results, maps, notes and cross sections
- Develop models and applied software for the analysis and interpretation of data

- Plan and conduct analytical studies of core samples, drill cuttings and rock samples to identify chemical, mineral, hydrocarbon and biological composition and to assess depositional environments and geological age
- Assess the size, orientation and composition of mineral ore bodies and hydrocarbon deposits
- Identify deposits of construction materials and determine their characteristics and suitability for use as concrete aggregates, road fill or for other applications
- Conduct geological and geophysical studies for regional development and advise in areas such as site selection, waste management and restoration of contaminated sites
- Recommend the acquisition of lands, exploration and mapping programs and mine development
- Identify and advise on anticipated natural risks such as slope erosion, landslides, soil instability, subsidence, earthquakes and volcanic eruptions
- May supervise and co-ordinate well drilling, completion and work-overs and mining activities.
- Geologists may specialize in fields such as coal geology, environmental geology, geochronology, hydrogeology, mineral deposits or mining, petroleum geology, stratigraphy, tectonics, volcanology or in other fields.
- Geochemists may specialize in analytical geochemistry, hydrogeochemistry, mineral or petroleum geochemistry or in other fields.
- Geophysicists may specialize in areas, such as petroleum geology, earth physics, geodesy, geoelectromagnetism, seismology or in other fields.

Oceanographers perform some or all of the following duties:

- Conduct theoretical and applied oceanographic research programs and expeditions to extend knowledge of the physical, chemical and biological properties and functioning of oceans
- Plan, direct and participate in sampling and analysis of seawater, plankton, fish, sediments and rocks
- Study physical properties of oceans to develop models, charts and computer simulations of ocean conditions, such as tides, waves, currents and sediment transport
- Explore ocean floor and submarine geological structures, conduct seismic surveys and study formation of ocean basins and other structures to map ocean floor, coastal erosion, sediment accumulation and areas for offshore oil and gas exploration
- Plan and conduct investigations on ocean chemical properties and processes, ocean floor and marine atmosphere and undersea volcanoes to study impacts of environmental changes
- Study marine life and interaction with physical and chemical environments to assess impacts of pollutants on marine ecology and to develop ecologically-based methods of seafarming.
- Oceanographers may specialize in biological, chemical, geological or physical oceanography, or in other fields related to the study of oceans.

*Employment requirements*

- A master's or doctoral degree in geophysics, physics, mathematics or engineering may be required for employment as a geophysicist.
- A master's or doctoral degree is usually required for employment as a research chemist.
- Geoscientists require a university degree in geology, geochemistry, geophysics or a related discipline.
- Licensing by a provincial association of chemists is required in Quebec and Alberta, and available but voluntary, in Nova Scotia, Ontario, Saskatchewan and British Columbia.
- Registration with a provincial or territorial association of professional engineers, geologists, geophysicists or geoscientists is usually required for employment and is mandatory to practice in all provinces and territories except Prince Edward Island and the Yukon.

*Additional information*

- Advancement to management positions in mining, petroleum and other industries is possible with experience.
- Mobility between specializations in this group is possible with experience.
- Progression to supervisory or higher level positions is possible with experience in this unit group.

## 2114 Meteorologists and climatologists

Meteorologists and climatologists analyze and forecast weather, provide consultation on atmospheric phenomena and conduct research into the processes and phenomena of weather, climate and atmosphere. They are employed by all levels of government, natural resources and utility companies, the media and private consulting firms, or they may be self-employed.

*Inclusion(s)*
- weather forecaster

*Illustrative example(s)*
- air quality meteorologist
- climatologist
- hydrometeorologist
- meteorologist
- operational meteorologist

*Exclusion(s)*
- Announcers who broadcast weather forecasts (see 5231 Announcers and other broadcasters)

*Main duties*

Meteorologists and climatologists perform some or all of the following duties:
- Analyze and interpret data obtained from meteorological stations, radar and satellite imagery and computer model output
- Produce weather forecasts and provide weather consulting services for industries such as aviation, marine, agriculture and tourism, and to the general public
- Disseminate weather forecasts and reports to the general public through a variety of media including radio, television, print and the Internet
- Conduct research and provide consultation on the processes and determinants of atmospheric phenomena, weather and climate, atmospheric dispersion, and physical and chemical transformation of pollutants
- Develop and test mathematical computer models of weather and climate for experimental or operational use
- Analyze the impact of industrial projects and human activity on the climate and quality of the air and work with the social science, engineering and economic communities to develop appropriate mitigation strategies
- Participate in studies of the effect of weather on the environment
- Provide consultation and advice to outside agencies, professionals, or researchers regarding the use and interpretation of climatological information
- Make scientific presentations, publish reports, articles or popular texts for specialists, users or the general public
- May engage in the design and development of new equipment and procedures for meteorological data collection, remote sensing, or for related applications.

*Employment requirements*
- A bachelor's or master's degree in meteorology, atmospheric sciences or in a related field is required.
- A doctoral degree is usually required for employment as a research scientist in meteorology.
- Geologists and geophysicists are eligible for registration following graduation from an accredited educational program and after several years of supervised work experience and, in some provinces, after passing a professional practice examination.
- Oceanographers require a university degree in science, mathematics, statistics or engineering and usually require a graduate degree in oceanography.

## 2115 Other professional occupations in physical sciences

This group includes metallurgists, soil scientists and physical scientists and researchers, not elsewhere classified, involved in the conduct of theoretical and applied research in fields of physical science. They are employed by governments, educational institutions and a wide range of industrial establishments.

*Illustrative example(s)*

- astronaut
- ballistics examiner
- materials scientist
- metallurgist
- physical metallurgist
- research scientist - ceramics
- research scientist - composite materials
- soil scientist

*Exclusion(s)*

- Air pilots, flight engineers and flying instructors (see 2271 Air pilots, flight engineers and flying instructors)
- Architecture and science managers (see 0212 Architecture and science managers)
- Chemists (see 2112 Chemists)
- Metallurgical and materials engineers (see 2142 Metallurgical and materials engineers)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Metallurgists conduct studies into the properties and production of metals and alloys.
- Soil scientists conduct research into the composition, distribution and evolution of soils.
- Materials scientists conduct research into the properties, composition and production of materials such as ceramics and composite materials.
- Astronauts command, pilot or serve as crew members of a spacecraft to conduct scientific experiments and research, and participate in space missions as mission specialists to maintain spacecraft, install and repair space station equipment and launch and recapture satellites.

*Employment requirements*

- A bachelor's degree in metallurgy, physics, chemistry, or a related physical science discipline is required.
- Formal training is provided by Environment Canada for operational meteorologists employed by the federal government.
- Membership in the Canadian Meteorological and Oceanographic Society is available, but voluntary, for qualified meteorologists.

*Additional information*

- Mobility between specializations in this group may be possible with experience.
- Mobility is possible with experience, to other fields of physical science or to management or regulatory program management.

## 212 Life science professionals

This minor group includes biologists and related scientists, forestry professionals, agricultural representatives, consultants and specialists. They are employed by governments; consulting, agricultural, resource, utilities, chemical, pharmaceutical and biotechnical companies; agricultural, health and educational institutions; and forestry and other industries; or they may be self-employed.

## 2121 Biologists and related scientists

Biologists and related scientists conduct basic and applied research to extend knowledge of living organisms, to manage natural resources, and to develop new practices and products related to medicine and agriculture. They are employed in both laboratory and field settings by governments, environmental consulting companies, resource and utilities companies, chemical, pharmaceutical and biotechnical companies and health and educational institutions.

*Illustrative example(s)*

- anatomist
- bacteriologist
- bioinformatician
- biologist
- botanist
- cell biologist
- ecologist
- embryologist
- geneticist
- histologist
- immunologist
- marine biologist
- microbiologist
- molecular biologist
- mycologist
- parasitologist
- pharmacologist
- physiologist
- protozoologist
- toxicologist
- virologist
- zoologist

*Exclusion(s)*

- Architecture and science managers (see 0212 Architecture and science managers)
- Biochemists (see 2112 Chemists)
- Clinical immunologists (see 3111 Specialist physicians)
- Specialists in laboratory medicine (see 3111 Specialist physicians)

*Main duties*

Biologists and related scientists perform some or all of the following duties:

- Biologists
- Plan and conduct studies of the environment, and of the population, distribution, structure and functional characteristics and behaviour of plants and animals
- Conduct ecological and environmental impact studies and prepare reports
- Study, identify and classify plant and animal specimens
- Conduct experiments in plant or animal growth, heredity and breeding
- Prepare reports and plans for management of renewable resources
- May supervise biological technologists and technicians and other scientists.
- Microbiologists and cell and molecular biologists
- Conduct research into the structure, function, ecology, biotechnology and genetics of micro-organisms, including bacteria, fungi, protozoans, and algae
- Conduct research into the structure and functioning of human, animal and plant tissues and cells
- Conduct studies into the identification, effects and control of human, plant and animal pathogens and toxins
- Conduct clinical or laboratory studies to test, evaluate and screen drugs, pharmaceuticals and nanoparticles used in biomedical applications

- Conduct molecular or biochemical studies and experiments in genetic expression, gene manipulation and recombinant DNA technology to develop new or alternative methods of producing products
- Conduct research in biotechnology to discover, develop and refine, and evaluate new products
- May participate in the commercialization of new products
- May supervise biological technologists and technicians and other scientists
- May conduct biostatistical data analysis using computer modelling techniques.
- Biologists and related scientists may specialize at the macroscopic level, in fields such as botany, zoology, ecology and marine biology or, at the cellular and molecular level, in fields such as genetics, immunology, pharmacology, toxicology, physiology, pathology, bacteriology, virology, biotechnology and bioinformatics.

*Employment requirements*

- A bachelor's degree in biology or in a related discipline is required for biologists.
- A master's or doctoral degree in biology or a related discipline is required for employment as a research scientist in biology.
- A master's or doctoral degree is usually required for employment as a research scientist.
- Advanced degrees in a broad range of applied science areas, such as engineering or medicine or Licences may be required for some occupations in this unit group.

## 2122 Forestry professionals

Forestry professionals conduct research, develop plans and administer and direct programs related to the management and harvesting of forest resources. They are employed by the forest industry, provincial and federal governments, consulting companies, educational institutions and other industries, or they may be self-employed.

*Inclusion(s)*

- forest engineer
- superintendent - forestry

*Illustrative example(s)*

- appraisal forester
- consulting forester
- district forester
- forester
- regional inventory officer - forestry
- registered professional forester (RPF)

*Exclusion(s)*

- Forest economists (see 4162 Economists and economic policy researchers and analysts)
- Forestry and woodlands operations managers (see 0811 Managers in natural resources production and fishing)
- Managers of government forestry policy and program administration (see 0412 Government managers - economic analysis, policy development and program administration)
- Managers of research in forestry (see 0212 Architecture and science managers)

*Main duties*

Forestry professionals perform some or all of the following duties:

- Plan and direct forest surveys and related studies and prepare reports and recommendations
- Establish short- and long-term plans for management of forest lands and forest resources
- Plan and direct woodlands harvesting, reforestation, silviculture and fire prevention and fire suppression programs, road building, wildlife management, environmental protection and insect and vegetation control programs
- Negotiate terms and conditions of agreements and contracts for forest harvesting, forest management and leasing of forest lands
- Monitor contract compliance and results of forestry activities
- Ensure adherence to government regulations and company objectives
- Plan and conduct public relations programs, and education and extension programs related to forestry

- Develop and oversee programs for tree seedling production and woodlands nursery operations
- Conduct advanced research in the areas of tree improvement, nursery seedling production, forest soils, forest ecology, forest mensuration, forest operations and other areas
- Provide advice and recommendations, as a consultant on forestry issues, to private woodlot owners, municipal, provincial or federal governments or to companies.

*Employment requirements*

- A bachelor's degree in forestry or forestry engineering is required.
- Biologists are regulated in Alberta and British Columbia.
- Post-doctoral research experience is usually required before employment in academic departments or research institutions.

*Additional information*

- Supervisory and senior occupations in this unit group require additional experience.
- With experience, mobility is possible to management positions in government and industry.

## 2123 Agricultural representatives, consultants and specialists

Agricultural representatives, consultants and specialists provide assistance and advice to farmers on all aspects of farm management, cultivation, fertilization, harvesting, soil erosion and composition, disease prevention, nutrition, crop rotation and marketing. They are employed by businesses, institutions and governments that assist the farming community, or they may be self-employed.

*Illustrative example(s)*

- agricultural consultant
- agricultural extension supervisor
- agricultural livestock specialist
- agricultural representative
- agricultural soil and crop specialist
- agriculturist
- agrologist
- agronomist
- consulting agrologist
- crop specialist
- farm management consultant
- field service adviser - agriculture
- field service agent - agriculture
- growers' advisor
- professional agrologist (P.Ag.)

*Exclusion(s)*

- Agricultural engineers (see 2148 Other professional engineers, n.e.c.)
- Agrology technologists and technicians (see 2221 Biological technologists and technicians)
- Biologists and related scientists (see 2121 Biologists and related scientists)
- Landscape and horticulture technicians and specialists (see 2225 Landscape and horticulture technicians and specialists)
- Managers of agricultural extension and consulting services (see 0212 Architecture and science managers)
- Managers responsible for agricultural economic policy (see 0412 Government managers - economic analysis, policy development and program administration)

*Main duties*

Agricultural representatives, consultants and specialists perform some or all of the following duties:

- Provide counselling and advisory services to farmers on crop cultivation and fertilization, harvesting, animal and poultry care, disease prevention, farm management, farm financing, marketing and other agricultural subjects
- Prepare and conduct advisory information sessions and lectures for farmers and other groups

- Conduct research, analyze agricultural data and prepare research reports
- Liaise with researchers, educators and government or business managers on matters pertaining to farming and agriculture
- Maintain records of services provided and the effects of advice given.
- Agricultural representatives, consultants and specialists may specialize in specific aspects of agriculture such as animal science, field crops, horticulture, soil science, irrigation or drainage, farm management, marketing, agricultural economics, land use, and environmental management, appraisal or extension and education.

*Employment requirements*

- A bachelor's or master's degree in agriculture or in a related science is required.
- A two-year practicum of supervised work experience and professional examinations are usually required before registration.
- Registration with a regulatory body is required in all provinces except Prince Edward Island and Manitoba.

*Additional information*

- Progression to management positions is possible with experience.

## 213 Civil, mechanical, electrical and chemical engineers

This minor group includes civil, mechanical, electrical, electronic, and chemical engineers. They are employed by governments; engineering, consulting, construction, and communications companies; power-generating utilities; a wide range of manufacturing, processing and transportation industries; and government, research and educational institutions; or they may be self-employed.

## 2131 Civil engineers

Civil engineers plan, design, develop and manage projects for the construction or repair of buildings, earth structures, powerhouses, roads, airports, railways, rapid transit facilities, bridges, tunnels, canals, dams, ports and coastal installations and systems related to highway and transportation services, water distribution and sanitation. Civil engineers may also specialize in foundation analysis, building and structural inspection, surveying, geomatics and municipal planning. Civil engineers are employed by engineering consulting companies, in all levels of government, by construction firms and in many other industries, or they may be self-employed.

*Inclusion(s)*

- spatial information systems engineer

*Illustrative example(s)*

- bridge engineer
- civil engineer
- construction engineer
- construction project engineer
- environmental engineer
- geodetic engineer
- geomatics engineer
- highway engineer
- hydraulics engineer
- municipal engineer
- public works engineer
- sanitation engineer
- structural engineer
- surveying engineer
- traffic engineer
- transportation engineer
- water management engineer

*Exclusion(s)*

- Construction managers (see 0711 Construction managers)
- Engineering managers (see 0211 Engineering managers)
- Environmental chemical engineers (see 2134 Chemical engineers)
- Geological engineers (see 2144 Geological engineers)
- Managers in transportation (see 0731 Managers in transportation)

*Main duties*

Civil engineers perform some or all of the following duties:

- Confer with clients and other members of the engineering team and conduct research to determine project requirements
- Plan and design major civil projects such as buildings, roads, bridges, dams, water and waste management systems and structural steel fabrications
- Develop construction specifications and procedures
- Evaluate and recommend appropriate building and construction materials
- Interpret, review and approve survey and civil design work
- Conduct field services for civil works
- Ensure construction plans meet guidelines and specifications of building codes and other regulations
- Establish and monitor construction work schedules
- Conduct feasibility studies, economic analyses, municipal and regional traffic studies, environmental impact studies or other investigations
- Monitor air, water and soil quality and develop procedures to clean up contaminated sites
- Conduct technical analyses of survey and field data for development of topographic, soil, hydrological or other information and prepare reports
- Act as project or site supervisor for land survey or construction work
- Prepare contract documents and review and evaluate tenders for construction projects
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.

*Employment requirements*

- A bachelor's degree in civil engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- In Quebec, membership in the Ordre professionnel des agronomes is mandatory.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Membership or eligibility for membership in a provincial institute of agrology is usually required.

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Supervisory and senior positions in this unit group require experience.
- There is considerable mobility between civil engineering specializations at the less senior levels.

## 2132 Mechanical engineers

Mechanical engineers research, design and develop machinery and systems for heating, ventilating and air conditioning, power generation, transportation, processing and manufacturing. They also perform duties related to the evaluation, installation, operation and maintenance of mechanical systems. Mechanical engineers are employed by consulting firms, by power-generating utilities and in a wide range of manufacturing, processing and transportation industries, or they may be self-employed.

*Illustrative example(s)*

- acoustics engineer
- automotive engineer
- design engineer - mechanical

- energy conservation engineer
- fluid mechanics engineer
- heating, ventilation and air conditioning (HVAC) engineer
- mechanical engineer
- mechanical maintenance engineer
- nuclear engineer
- piping engineer
- power generation engineer
- refrigeration engineer
- robotics engineer
- thermal design engineer
- tool engineer

*Exclusion(s)*

- Engineering managers (see 0211 Engineering managers)
- Industrial and manufacturing engineers (see 2141 Industrial and manufacturing engineers)
- Metallurgical and materials engineers (see 2142 Metallurgical and materials engineers)
- Power engineers or stationary engineers (see 9241 Power engineers and power systems operators)

*Main duties*

Mechanical engineers perform some or all of the following duties:

- Conduct research into the feasibility, design, operation and performance of mechanisms, components and systems
- Plan and manage projects, and prepare material, cost and timing estimates, reports and design specifications for machinery and systems
- Design power plants, machines, components, tools, fixtures and equipment
- Analyze dynamics and vibrations of mechanical systems and structures
- Supervise and inspect the installation, modification and commissioning of mechanical systems at construction sites or in industrial facilities
- Develop maintenance standards, schedules and programs and provide guidance to industrial maintenance crews
- Investigate mechanical failures or unexpected maintenance problems
- Prepare contract documents and evaluate tenders for industrial construction or maintenance
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.

*Employment requirements*

- A bachelor's degree in mechanical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Mechanical engineers work closely with civil, electrical, aerospace, chemical, industrial and other engineers, and mobility is possible between some fields of specialization in these disciplines.
- Supervisory and senior positions in this unit group require experience.
- There is considerable mobility between mechanical engineering specializations at the less senior levels.

## 2133 Electrical and electronics engineers

Electrical and electronics engineers design, plan, research, evaluate and test electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and by a wide range of manufacturing, processing and transportation industries and government.

*Illustrative example(s)*

- avionics engineer
- control systems engineer
- electrical design engineer
- electrical distribution planning engineer
- electrical engineer
- electrical network engineer
- electrical process control engineer
- electrical systems planning engineer
- electronics engineer
- electronics test engineer
- instrumentation and control engineer
- roadway lighting design engineer
- television systems engineer

*Exclusion(s)*

- Computer and information systems managers (see 0213 Computer and information systems managers)
- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Electrical and electronics engineering technologists and technicians (see 2241 Electrical and electronics engineering technologists and technicians)
- Engineering managers (see 0211 Engineering managers)
- Software engineers and designers (see 2173 Software engineers and designers)

*Main duties*

Electrical and electronics engineers perform some or all of the following duties:

- Conduct research into the feasibility, design, operation and performance of electrical generation and distribution networks, electrical machinery and components and electronic communications, instrumentation and control systems, equipment, and components
- Prepare material cost and timing estimates, reports and design specifications for electrical and electronic systems and equipment
- Design electrical and electronic circuits, components, systems and equipment
- Conduct micro or nanodevices simulations, characterization, process modeling and integration in the development of new electronic devices and products
- Supervise and inspect the installation, modification, testing and operation of electrical and electronic systems and equipment
- Develop maintenance and operating standards for electrical and electronic systems and equipment
- Investigate electrical or electronic failures
- Prepare contract documents and evaluate tenders for construction or maintenance
- Supervise technicians, technologists, programmers, analysts and other engineers.
- Electrical and electronics engineers may specialize in a number of areas including electrical design for residential, commercial or industrial installations, electrical power generation and transmission, and instrumentation and control systems.

*Employment requirements*

- A bachelor's degree in electrical or electronics engineering or in an appropriate related engineering discipline is required.
- A master's or doctoral degree in a related engineering discipline may be required.

- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Supervisory and senior positions in this unit group require experience.

## 2134 Chemical engineers

Chemical engineers research, design, and develop chemical processes and equipment, oversee the operation and maintenance of industrial chemical, plastics, pharmaceutical, resource, pulp and paper, and food processing plants and perform duties related to chemical quality control, environmental protection and biochemical or biotechnical engineering. Chemical engineers are employed in a wide range of manufacturing and processing industries, consulting firms, government, research and educational institutions.

*Inclusion(s)*

- pipeline transport engineer

*Illustrative example(s)*

- adhesives engineer
- biochemical engineer
- biotechnical engineer
- chemical process control engineer
- chemical process engineer
- chemical project engineer
- environmental chemical engineer
- industrial hygiene engineer
- industrial waste treatment engineer
- liquid fuels engineer
- petrochemical engineer
- polymer engineer
- pulp and paper engineer
- refinery engineer
- waste treatment engineer

*Exclusion(s)*

- Agricultural and biomedical engineers (see 2148 Other professional engineers, n.e.c.)
- Chemists (see 2112 Chemists)
- Civil environmental engineers (see 2131 Civil engineers)
- Engineering managers (see 0211 Engineering managers)
- Metallurgical and materials engineers (see 2142 Metallurgical and materials engineers)
- Petroleum engineers (see 2145 Petroleum engineers)
- Process control engineers with electrical or electronic specialization (see 2133 Electrical and electronics engineers)

*Main duties*

Chemical engineers perform some or all of the following duties:

- Conduct economic and technical feasibility studies in areas related to chemical, petroleum, pulp and paper, food or other processing industries

- Conduct research into the development or improvement of chemical engineering processes, reactions and materials
- Evaluate chemical process technology and equipment and determine production specifications
- Design and test chemical processing and associated plants and equipment
- Oversee the construction, modification, operation and maintenance of pilot plants, processing units or processing plants
- Establish and conduct quality control programs, operating procedures and control strategies to ensure consistency and adherence to standards for raw materials, products and waste products or emissions
- Prepare contract documents and evaluate tenders for the process aspects of industrial construction
- Supervise technicians, technologists and other engineers
- May work in an administrative capacity, for example, in the development of guidelines and specifications for the handling of dangerous chemicals, environmental protection, or standards for foods, materials and consumer goods.
- Chemical engineers may specialize in the products and processes of a particular industry such as pulp and paper manufacturing, pharmaceuticals, petroleum refining, energy processing, plastics, metal extraction and refining, or adhesives and coatings production. They may also specialize in functional areas of various industries such as process control, pollution control or fermentation processes.

*Employment requirements*

- A bachelor's degree in chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.

*Additional information*

- Chemical engineers work closely with chemists and other scientists and engineers and mobility is possible between some fields of specialization.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Supervisory and senior positions in this unit group require experience.
- There is considerable mobility between chemical engineering specializations at the less senior levels.

## 214 Other engineers

This minor group includes industrial, manufacturing, metallurgical, materials, mining, geological, petroleum, aerospace, and computer engineers (except software engineers and designers), as well as other engineers not included elsewhere. They are employed by governments; consulting, engineering, mining, petroleum, well logging or testing, utilities, and telecommunications companies; in manufacturing and processing; by air transport carriers; and financial, health, research and educational institutions; or they may be self-employed.

## 2141 Industrial and manufacturing engineers

Industrial and manufacturing engineers conduct studies, and develop and supervise programs to achieve the best use of equipment, human resources, technology, materials and procedures to enhance efficiency and productivity. Industrial and manufacturing engineers are employed in consulting firms, manufacturing and processing companies, in government, financial, health care and other institutions, or they may be self-employed.

*Illustrative example(s)*

- computer integrated manufacturing (CIM) engineer
- fire prevention engineer
- industrial engineer
- manufacturing engineer

- plant engineer
- production engineer
- quality control engineer
- safety engineer
- work measurement engineer

*Exclusion(s)*

- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Engineering managers (see 0211 Engineering managers)
- Mechanical engineers (see 2132 Mechanical engineers)
- Metallurgical and materials engineers (see 2142 Metallurgical and materials engineers)
- Organizational analysts (see 1122 Professional occupations in business management consulting)

*Main duties*

Industrial and manufacturing engineers perform some or all of the following duties:

- Plan and design plant layouts and facilities
- Study new machinery and facilities and recommend or select efficient combinations
- Develop flexible or integrated manufacturing systems and procedures
- Conduct studies and implement programs to determine optimum inventory levels for production and to allow optimum utilization of machinery, materials and resources
- Analyze costs of production
- Design, develop and conduct time studies and work simplification programs
- Determine human resource and skill requirements and develop training programs
- Develop performance standards, evaluation systems and wage and incentive programs
- Conduct studies of the reliability and performance of plant facilities and production or administrative systems
- Develop maintenance standards, schedules and programs
- Establish programs and conduct studies to enhance industrial health and safety or to identify and correct fire and other hazards
- Evaluate or assess industrial facilities
- Supervise technicians, technologists, analysts, administrative staff and other engineers.

*Employment requirements*

- A bachelor's degree in industrial engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Industrial engineers develop and implement organizational and management systems, and manufacturing engineers design production processes.
- Supervisory and senior positions in this unit group require experience.
- There is considerable mobility between industrial engineering specializations at the less senior levels.

## 2142 Metallurgical and materials engineers

Metallurgical and materials engineers conduct studies of the properties and characteristics of metals and other non-metallic materials and plan, design and develop machinery and processes to concentrate, extract, refine and process metals, alloys and other materials such as ceramics, semiconductors and composite materials. Metallurgical and materials engineers are employed in consulting engineering firms, mining, metal processing and manufacturing companies, and in government, research and educational institutions.

*Illustrative example(s)*

- ceramics engineer
- corrosion engineer
- electrometallurgical engineer
- foundry engineer
- hydrometallurgical engineer
- materials engineer
- metallurgical engineer
- physical metallurgical engineer
- pyrometallurgical engineer
- welding engineer

*Exclusion(s)*

- Chemical engineers (see 2134 Chemical engineers)
- Chemists (see 2112 Chemists)
- Engineering managers (see 0211 Engineering managers)
- Mining engineers (see 2143 Mining engineers)
- Physical metallurgists and materials scientists (see 2115 Other professional occupations in physical sciences)

*Main duties*

Metallurgical and materials engineers perform some or all of the following duties:

- Conduct studies and design, develop and specify the processes, and machinery to concentrate, extract, refine and process metals from ores
- Conduct studies on the properties and characteristics of materials and design, develop and specify processes for moulding, shaping, forming and thermal treatment of metals, alloys and metallic systems, ceramics, semiconducting and other materials
- Conduct chemical and physical analytical studies, failure analyses and other studies and recommend material selection, design of materials, corrosion control measures, operational testing and other procedures
- Co-ordinate production testing and control of metal refining, smelting or foundry operations or non-metallic materials production operations
- Supervise technologists, technicians and other engineers and scientists.

*Employment requirements*

- A bachelor's degree in metallurgical, materials, ceramic or chemical engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.

- Metallurgical and materials engineers work closely with other engineers and scientists and mobility is possible between some fields of specialization.
- Metallurgical engineers research and develop new alloys and systems for extracting metal from ores; materials engineers research and develop new non-metallic materials with physical characteristics to meet specific requirements.
- Supervisory and senior positions in this unit group require experience.
- There is considerable mobility between engineering specializations at the less senior levels.

## 2143 Mining engineers

Mining engineers plan, design, organize and supervise the development of mines, mine facilities, systems and equipment; and prepare and supervise the extraction of metallic or non-metallic minerals and ores from underground or surface mines. Mining engineers are employed by mining companies, consulting engineering companies, manufacturers, government and in educational and research institutions.

*Illustrative example(s)*

- mine design engineer
- mine development engineer
- mine layout engineer
- mine production engineer
- mine safety engineer
- mine ventilation engineer
- mineral engineer
- mining engineer

*Exclusion(s)*

- Engineering managers (see 0211 Engineering managers)
- Geological engineers (see 2144 Geological engineers)
- Geoscientists and oceanographers (see 2113 Geoscientists and oceanographers)
- Metallurgical and materials engineers (see 2142 Metallurgical and materials engineers)
- Mine managers (see 0811 Managers in natural resources production and fishing)
- Petroleum engineers (see 2145 Petroleum engineers)

*Main duties*

Mining engineers perform some or all of the following duties:

- Conduct preliminary surveys and studies of ore, mineral or coal deposits to assess the economic and environmental feasibility of potential mining operations
- Determine the appropriate means of safely and efficiently mining deposits
- Determine and advise on appropriate drilling and blasting methods for mining, construction or demolition
- Design shafts, ventilation systems, mine services, haulage systems and supporting structures
- Design, develop and implement computer applications such as for mine design, mine modelling, mapping or for monitoring mine conditions
- Plan and design or select mining equipment and machinery and mineral treatment machinery and equipment in collaboration with other engineering specialists
- Plan, organize and supervise the development of mines and mine structures and the operation and maintenance of mines
- Prepare operations and project estimates, schedules and reports
- Implement and co-ordinate mine safety programs
- Supervise and co-ordinate the work of technicians, technologists, survey personnel, and other engineers and scientists.

*Employment requirements*

- A bachelor's degree in mining engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.

- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Mining engineers work closely with geologists, geological engineers, metallurgical engineers, and other engineers and scientists, and mobility is possible between some fields of specialization.
- Supervisory and senior positions in this unit group require experience.

## 2144 Geological engineers

Geological engineers conduct geological and geotechnical studies to assess suitability of locations for civil engineering, mining and oil and gas projects; and plan, design, develop and supervise programs of geological data acquisition and analysis and the preparation of geological engineering reports and recommendations. Geological engineers are employed in consulting engineering companies, electrical utilities, mining and petroleum companies and in government and research and educational institutions.

*Illustrative example(s)*

- geological engineer
- geophysical engineer
- hydrogeological engineer - engineering

*Exclusion(s)*

- Civil engineers (see 2131 Civil engineers)
- Engineering managers (see 0211 Engineering managers)
- Geoscientists and oceanographers (see 2113 Geoscientists and oceanographers)
- Land surveyors (see 2154 Land surveyors)
- Mining engineers (see 2143 Mining engineers)
- Petroleum engineers (see 2145 Petroleum engineers)

*Main duties*

Geological engineers perform some or all of the following duties:

- Plan, develop and co-ordinate programs of geotechnical, geological, geophysical or geohydrological data acquisition, analysis and mapping to assist in the development of civil engineering, mining, petroleum and waste management projects or for regional development
- Analyze and prepare recommendations and reports for construction or improvements to foundations of civil engineering projects such as rock excavation, pressure grouting and hydraulic channel erosion control
- Analyze and prepare recommendations and reports on settlement of buildings, stability of slopes and fills, and probable effects of landslides and earthquakes to support construction and civil engineering projects
- Conduct theoretical and applied study of groundwater flow and contamination and develop prescriptions for site selection, treatment and construction
- Plan, develop, co-ordinate and conduct theoretical and experimental studies in mining exploration, mine evaluation and feasibility studies relative to the mining industry
- Conduct surveys and studies of ore deposits, ore reserve calculations and mine design
- Design, develop and implement computer applications for geophysics, geochemistry, geology, mapping and related fields
- Supervise technologists, technicians and other engineers and scientists.

*Employment requirements*

- A bachelor's degree in geological engineering or in a related discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.

- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Geological engineers work closely with geologists and other scientists and engineers, and mobility is possible between some fields of specialization.
- Supervisory and senior positions in this unit group require experience.
- There is considerable mobility between engineering specializations at the less senior levels.

## 2145 Petroleum engineers

Petroleum engineers conduct studies for the exploration, development and extraction of oil and gas deposits; and plan, design, develop and supervise projects for the drilling, completion, testing and re-working of oil and gas wells. They are employed by petroleum producing companies, consulting companies, well logging or testing companies, government, and research and educational institutions.

*Illustrative example(s)*

- oil and gas drilling engineer
- oil and gas production engineer
- petroleum engineer
- petroleum reservoir engineer
- petroleum well completion engineer
- subsea engineer

*Exclusion(s)*

- Chemical engineers (see 2134 Chemical engineers)
- Contractors and supervisors, oil and gas drilling and services (see 8222 Contractors and supervisors, oil and gas drilling and services)
- Engineering managers (see 0211 Engineering managers)
- Geological engineers (see 2144 Geological engineers)
- Geoscientists and oceanographers (see 2113 Geoscientists and oceanographers)

*Main duties*

Petroleum engineers perform some or all of the following duties:

- Conduct feasibility assessment studies for developing new oil and gas fields
- Direct and monitor oil and gas drilling operations
- Develop drilling programs, select sites and specify drilling fluids, bit selection, drill stem testing procedures and equipment
- Direct and monitor the completion and evaluation of wells, well testing and well surveys
- Design and select artificial lift machinery, and well and surface production equipment and systems, and specify programs for corrosion control and oil or gas treatment
- Develop specifications for and monitor and supervise well modification and stimulation programs to maximize oil and gas recovery
- Analyze reservoir rock and fluid data to design optimum recovery methods and to predict reservoir performance and reserves
- Monitor and forecast oil and gas reservoir performance and recommend oil recovery techniques which extend the economic life of wells
- Design, develop and co-ordinate the installation, maintenance and operation of subsea well-head and production equipment.
- Petroleum engineers may specialize in drilling, production, reservoir analysis or subsea operations.

*Employment requirements*

- A bachelor's degree in petroleum engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Supervisory and senior positions in this unit group require experience.
- There is mobility between petroleum engineering specializations at the less senior levels.

## 2146 Aerospace engineers

Aerospace engineers research, design and develop aerospace vehicles, aerospace systems and their components, and perform duties related to their testing, evaluation, installation, operation and maintenance. They are employed by aircraft and spacecraft manufacturers, air transport carriers, and in government and educational and research institutions.

*Illustrative example(s)*

- aerodynamics engineer
- aeronautical engineer
- aerospace engineer
- aerospace structural engineer
- aerospace systems engineer
- aerospace test engineer
- aircraft design engineer
- stress engineer - aerospace

*Exclusion(s)*

- Aircraft maintenance engineers (AME) - avionics (see 2244 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Aircraft maintenance engineers (AME) (see 7315 Aircraft mechanics and aircraft inspectors)
- Avionics engineers (see 2133 Electrical and electronics engineers)
- Engineering managers (see 0211 Engineering managers)
- Mechanical engineers (see 2132 Mechanical engineers)
- Metallurgical and materials engineers (see 2142 Metallurgical and materials engineers)

*Main duties*

Aerospace engineers perform some or all of the following duties:

- Design and develop aerospace vehicles, systems and components such as aircraft, spacecraft, missiles, satellites and space-based communication systems
- Develop and conduct computer simulations of aerospace vehicles, systems and components using advanced mathematical modelling
- Prepare specifications for materials and processes to be used in aerospace manufacturing, maintenance, repair or modification
- Supervise and co-ordinate the manufacturing, assembly, modification, repair and overhaul of aircraft and spacecraft
- Co-ordinate ground and flight tests of air and spacecraft
- Develop operational specifications, maintenance schedules and manuals for operators
- Develop the technical phases of logistical and operational support for aerospace vehicles and systems

- Investigate and report on structural or other component or system failures, accidents or incidents and prepare recommendations for corrective action.

*Employment requirements*

- A bachelor's degree in aerospace engineering or in a related engineering discipline, such as mechanical engineering or engineering physics, is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Aerospace engineers work closely with other scientists and engineers and mobility is possible between some fields of specialization.
- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Supervisory and senior positions in this unit group require experience.
- There is considerable mobility between aerospace engineering specializations at the less senior levels.

## 2147 Computer engineers (except software engineers and designers)

Computer engineers (except software engineers and designers) research, plan, design, develop, modify, evaluate and integrate computer and telecommunications hardware and related equipment, and information and communication system networks including mainframe systems, local and wide area networks, fibre-optic networks, wireless communication networks, intranets, the Internet and other data communications systems. They are employed by computer and telecommunication hardware manufacturers, by engineering, manufacturing and telecommunications firms, in information technology consulting firms, by governmental, educational and research institutions and in information technology units throughout the private and public sectors.

*Illustrative example(s)*

- computer hardware engineer
- fibre-optic network designer
- hardware circuit board designer
- hardware development engineer
- hardware technical architect
- network test engineer
- systems designer - hardware
- telecommunications hardware engineer
- wireless communications network engineer

*Exclusion(s)*

- Computer and information systems managers (see 0213 Computer and information systems managers)
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Electrical and electronics engineering technologists and technicians (see 2241 Electrical and electronics engineering technologists and technicians)
- Electrical and electronics engineers (see 2133 Electrical and electronics engineers)
- Engineering managers (see 0211 Engineering managers)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)
- Software engineers and designers (see 2173 Software engineers and designers)
- Web designers and developers (see 2175 Web designers and developers)

*Main duties*

Computer engineers (except software engineers and designers) perform some or all of the following duties:

- Computer and telecommunications hardware engineers
- Analyze user's requirements, and design and develop system architecture and specifications
- Research, design, develop and integrate computer and telecommunications hardware such as microprocessors, integrated circuit boards and semiconductor lasers
- Develop and conduct design verification simulations and prototype bench tests of components
- Supervise, inspect and provide design support during the manufacturing, installation and implementation of computer and telecommunications hardware
- Establish and maintain relationships with suppliers and clients
- May lead and co-ordinate teams of engineers, technologists, technicians and drafters in the design and development of computer and telecommunications hardware.
- Network system and data communication engineers
- Research, design and develop information and communication system network architecture
- Research, evaluate and integrate network system and data communication hardware and software
- Assess, document and optimize the capacity and performance of information and communication system networks
- May lead and co-ordinate teams of design professionals in the development and integration of information and communication system architecture, hardware and software.
- Computer engineers may specialize in a number of areas including analog and digital signal processing, fibre optics, integrated circuits, lasers, microprocessors, microwaves and radio astronomy.

*Employment requirements*

- A master's or doctoral degree in a related engineering discipline may be required.
- Computer engineers require a bachelor's degree in computer engineering, electrical or electronics engineering, engineering physics or computer science.
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Supervisory and senior positions in this unit group require experience.

## 2148 Other professional engineers, n.e.c.

This unit group includes agricultural and bio-resource engineers, biomedical engineers, engineering physicists and engineering scientists, marine and naval engineers, textile engineers and other specialized engineering occupations which are not classified elsewhere.

*Illustrative example(s)*

- agricultural engineer
- biomedical engineer
- bio-resource engineer
- engineering physicist
- engineering scientist
- food processing engineer
- marine engineer
- naval architect
- textile engineer

*Exclusion(s)*

- Biochemical and biotechnical engineers (see 2134 Chemical engineers)
- Engineering managers (see 0211 Engineering managers)
- Marine engineer officers - water transport (see 2274 Engineer officers, water transport)
- Physicists (see 2111 Physicists and astronomers)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Agricultural and bio-resource engineers design and develop machinery, structures, equipment and systems related to agriculture and food processing.
- Biomedical engineers design and develop medical diagnostic and clinical instrumentation, equipment and procedures; develop devices to assist persons with disabilities; advise hospital administrators on planning, acquisition and use of medical equipment; and modify and install or supervise installation of equipment.
- Engineering physicists and engineering scientists conduct research, develop processes, programs and equipment to expand fundamental knowledge in the applied sciences and engineering and to support advanced engineering and scientific applications.
- Marine and naval engineers design and develop marine vessels and floating structures and associated marine power plants, propulsion systems and related systems and equipment and oversee the building, maintenance and repair of vessels and marine systems.
- Textile engineers design and develop processes, equipment and procedures for the production of fibres, yarns and textiles.

*Employment requirements*

- A bachelor's degree in an appropriate engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

*Additional information*

- Engineers often work in a multidisciplinary environment and acquire knowledge and skills through work experience that may allow them to practise in associated areas of science, engineering, sales, marketing or management.
- Supervisory and senior positions in this unit group require experience.
- There is limited mobility between the engineering specializations included in this unit group.

## 215 Architects, urban planners and land surveyors

This minor group includes architects, landscape architects, urban and land use planners, and land surveyors. They are employed by governments; architectural, engineering, construction, real estate development, natural resource, landscape consulting, and other consulting companies; land developers and land surveying establishments; and government environmental and development agencies; or they may be self-employed.

### 2151 Architects

Architects conceptualize, plan and develop designs for the construction and renovation of commercial, institutional and residential buildings. They are employed by architectural firms, private corporations and governments, or they may be self-employed.

*Illustrative example(s)*

- architect
- architectural standards specialist
- chief architect
- consulting architect

- industrial and commercial buildings architect
- residential architect

*Exclusion(s)*
- Architecture and science managers (see 0212 Architecture and science managers)
- Database architects (see 2172 Database analysts and data administrators)
- Landscape architects (see 2152 Landscape architects)
- Naval architects (see 2148 Other professional engineers, n.e.c.)
- Software architects (see 2173 Software engineers and designers)
- Structural engineers (see 2131 Civil engineers)
- Technical architects, hardware (see 2147 Computer engineers (except software engineers and designers))

*Main duties*

Architects perform some or all of the following duties:
- Consult with clients to determine the type, style and purpose of renovations or new building construction being considered
- Conceptualize and design buildings and develop plans describing design specifications, building materials, costs and construction schedules
- Prepare sketches and models for clients
- Prepare or supervise the preparation of drawings, specifications and other construction documents for use by contractors and tradespersons
- Prepare bidding documents, participate in contract negotiations and award construction contracts
- Monitor activities on construction sites to ensure compliance with specifications
- Conduct feasibility studies and financial analyses of building projects.
- Architects may specialize in a particular type of construction such as residential, commercial, industrial or institutional.

*Employment requirements*
- A bachelor's degree from an accredited school of architecture or Completion of the syllabus of studies from the Royal Architectural Institute of Canada (RAIC) is required.
- A master's degree in architecture may be required.
- Completion of a three-year internship under the supervision of a registered architect is required.
- Completion of the architect registration examination is required.
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports, and to practise as a Professional Engineer (P.Eng.).

*Additional information*
- Progression to senior positions, such as chief architect, is possible with experience.

## 2152 Landscape architects

Landscape architects conceptualize, design, plan and manage the construction of natural, cultural and built landscape development for commercial projects, office complexes, parks, golf courses and residential development. They are employed by government environmental and development agencies, landscape consulting firms and by architectural and engineering firms, or they are self-employed.

*Illustrative example(s)*
- landscape architect
- senior landscape architect

*Exclusion(s)*
- Architects (see 2151 Architects)

- Landscape and horticulture technicians and specialists (see 2225 Landscape and horticulture technicians and specialists)
- Landscape architecture managers (see 0212 Architecture and science managers)
- Landscape design contractors (see 8255 Contractors and supervisors, landscaping, grounds maintenance and horticulture services)
- Urban and land use planners (see 2153 Urban and land use planners)

*Main duties*

Landscape architects perform some or all of the following duties:

- Confer with clients to determine design needs
- Survey and assess designated sites and develop designs taking into consideration landscape features, buildings, climate, future usage and other aspects
- Prepare or oversee the preparation of detailed drawings for sites, including features such as trees, shrubs, gardens, lighting, walkways, patios, decks, benches, fences, retaining walls and fountains
- Prepare or oversee preparation of site plans, reports, sketches, models, photographs, maps, land use studies, design plans such as landscape grading, drainage or planting, and construction details
- Estimate costs, prepare specifications and evaluate tenders for landscape construction projects
- Conduct environmental design studies, including environmental assessment, planning and the preservation and re-creation of historical sites
- Conduct community and neighbourhood physical planning studies, participate in multidisciplinary urban design studies, prepare design guidelines, and develop master plans
- May manage and supervise landscape construction work.

*Employment requirements*

- A bachelor's degree in landscape architecture is required.
- A master's degree in landscape architecture may be required.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.
- Registration with a provincial regulatory body is required in all provinces and the Northwest Territories.
- Registration with a regulatory body is required in Ontario, Alberta and British Columbia.

## 2153 Urban and land use planners

Urban and land use planners develop plans and recommend policies for managing land use, physical facilities and associated services for urban and rural areas and remote regions. They are employed by all levels of government, land developers, engineering and other consulting companies, or may work as private consultants.

*Illustrative example(s)*

- community and urban planner
- environmental planner
- land use planner
- municipal planner
- park planner
- planner
- recreation planner
- regional planner
- urban planner

*Exclusion(s)*

- Architects (see 2151 Architects)
- Architecture and science managers (see 0212 Architecture and science managers)
- Engineering managers (see 0211 Engineering managers)
- Land surveyors (see 2154 Land surveyors)

*Main duties*

Urban and land use planners perform some or all of the following duties:

- Compile and analyze data on demographic, economic, legal, political, cultural, sociological, physical and other factors affecting land use
- Confer with municipal, provincial and federal authorities, civic leaders, social scientists, lawyers, land developers, the public and special interest groups to formulate and develop land use or community plans
- Prepare and recommend land development concepts and plans for zoning, subdivisions, transportation, public utilities, community facilities, parks, agricultural and other land uses
- Prepare plans for environmental protection, such as wildlife preserves, national and provincial parks, and protection of watersheds
- Present plans to civic, rural and regional authorities and hold public meetings to present plans, proposals or planning studies to the general public and special interest groups
- Review and evaluate proposals for land use and development plans and prepare recommendations
- Process application for land development permits and administer land use plans and zoning by-laws
- Formulate long-range objectives and policies relative to future land use and the protection of the environment
- Supervise and co-ordinate work of urban planning technicians and technologists.

*Employment requirements*

- A bachelor's degree in urban and regional planning, geography, architecture, engineering or a related discipline is required.
- A master's degree in one of these disciplines may be required.
- In the remaining provinces and territories, landscape architects usually require two years of landscape design experience and an interview by their respective provincial associations to receive association certification.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.
- Membership in the Canadian Institute of Planners is usually required.

*Additional information*

- Progression to management positions in planning is possible with experience.

### 2154 Land surveyors

Land surveyors plan, direct and conduct legal surveys to establish the location of real property boundaries, contours and other natural or human-made features, and prepare and maintain cross-sectional drawings, official plans, records and documents pertaining to these surveys. They are employed by federal, provincial and municipal governments, private sector land surveying establishments, real estate development, natural resource, engineering and construction firms, or they may be self-employed.

*Illustrative example(s)*

- commissioned land surveyor
- land surveyor
- legal surveyor
- professional land surveyor
- property surveyor

*Exclusion(s)*

- Engineering managers (see 0211 Engineering managers)
- Engineering technologists and technicians who apply geotechnical and topographical information to land use and urban planning (see 2231 Civil engineering technologists and technicians)
- Geomatics and survey engineers (see 2131 Civil engineers)
- Hydrographic surveyors (see 2113 Geoscientists and oceanographers)
- Land survey technologists and technicians (see 2254 Land survey technologists and technicians)
- Technical occupations in geomatics and meteorology (see 2255 Technical occupations in geomatics and meteorology)
- Urban and land use planners (see 2153 Urban and land use planners)

*Main duties*

Land surveyors perform some or all of the following duties:

- Develop survey plans, methods and procedures for conducting legal surveys
- Plan, direct and supervise or conduct surveys to establish and mark legal boundaries of properties, parcels of lands, provincial and Canada Lands, Aboriginal land claims, wellsites, mining claims, utility rights-of-way, roadways and highways
- Survey and lay out subdivisions for rural and urban development
- Determine precise locations using electronic distance measuring equipment and global positioning systems (GPS)
- Analyze, manage and display data using geographic information systems (GIS) and computer-aided design and drafting (CAD)
- Record all measurements and other information obtained during survey activities
- Prepare or supervise the preparation and compilation of all data, plans, charts, records and documents related to surveys of real property boundaries
- Certify and assume liability for surveys made to establish real property boundaries
- Advise, provide consultation and testify as an expert witness on matters related to legal surveys
- May supervise other land surveyors, and land survey technologists and technicians.

*Employment requirements*

- A bachelor's degree in geomatics engineering or survey engineering or A college diploma in survey science or geomatics technology with additional academic credits and successful completion of equivalent examinations set by a regional board of examiners for land surveyors is required.
- A one- to three-year articling period is required.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.
- Urban and land use planners are regulated in Nova Scotia, New Brunswick, Quebec, Alberta, the Northwest Territories and Nunavut, and membership in a provincial planning institute may be required in other provinces.

*Additional information*

- Federal statutes require a separate licence from the Association of Canada Land Surveyors to survey areas such as national parks, Aboriginal lands, offshore areas and northern territories.

## 216 Mathematicians, statisticians and actuaries

This minor group includes mathematicians, statisticians and actuaries. They are employed by universities, governments, bank and trust companies, insurance companies, pension benefit consulting firms, professional associations, and science and engineering consulting firms.

### 2161 Mathematicians, statisticians and actuaries

Mathematicians and statisticians research mathematical or statistical theories, and develop and apply mathematical or statistical techniques for solving problems in such fields as science, engineering, business and social science. Actuaries apply mathematics, statistics, probability and risk theory to assess potential financial impacts of future events. Mathematicians, statisticians and actuaries are employed by universities, governments, bank and trust companies, insurance companies, pension benefit consulting firms, professional associations, and science and engineering consulting firms.

*Illustrative example(s)*

- actuary
- biostatistician
- consulting actuary
- demographer
- insurance actuary
- mathematician
- statistical analyst

- statistician

*Exclusion(s)*

- Financial and investment analysts (see 1112 Financial and investment analysts)
- Financial auditors and accountants (see 1111 Financial auditors and accountants)
- Financial managers (see 0111 Financial managers)
- Insurance, real estate and financial brokerage managers (see 0121 Insurance, real estate and financial brokerage managers)
- Other financial officers (see 1114 Other financial officers)
- Statistical officers and related research support occupations (see 1254 Statistical officers and related research support occupations)

*Main duties*

Mathematicians, statisticians and actuaries perform some or all of the following duties:

- Mathematicians
- Conduct research to extend mathematical knowledge in traditional areas of mathematics such as algebra, geometry, probability and logic
- Apply mathematical techniques to the solution of problems in scientific fields such as physical science, engineering, computer science or other fields such as operations research, business or management.
- Statisticians
- Conduct research into the mathematical basis of the science of statistics
- Develop statistical methodology and advise on the practical application of statistical methodology
- Apply statistical theory and methods to provide information in scientific and other fields such as biological and agricultural science, business and economics, physical sciences and engineering, and the social sciences.
- Actuaries
- Apply mathematical models to forecast and calculate the probable future costs of insurance and pension benefits
- Design life, health, and property insurance policies, and calculate premiums, contributions and benefits for insurance policies, and pension and superannuation plans
- May assist investment fund managers in portfolio asset allocation decisions and risk management. They also use these techniques to provide legal evidence on the value of future earnings.

*Employment requirements*

- A federal or provincial land surveyor's licence is required.
- Mathematicians and statisticians usually require a graduate degree in mathematics or statistics.
- Successful completion of professional land surveyor examinations is required.

*Additional information*

- With experience, actuaries may progress to managerial positions in consulting, insurance and finance. They may also be self-employed.

## 217 Computer and information systems professionals

This minor group includes professionals working in computer and information systems. They are employed by computer software development and information technology consulting, research and development companies; advertising agencies; and in information technology units throughout the private and public sectors; or they may be self-employed.

### 2171 Information systems analysts and consultants

Information systems analysts and consultants analyze and test systems requirements, develop and implement information systems development plans, policies and procedures, and provide advice on a wide range of information systems issues. They are employed in information technology consulting firms and in information technology units throughout the public and private sectors, or they may be self-employed.

*Illustrative example(s)*

- computer systems analyst
- informatics consultant
- informatics security analyst
- information systems business analyst
- IT (information technology) consultant
- management information systems (MIS) analyst
- systems auditor
- systems consultant
- systems security analyst

*Exclusion(s)*

- Computer and information systems managers (see 0213 Computer and information systems managers)
- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Database analysts and data administrators (see 2172 Database analysts and data administrators)
- Financial auditors and accountants (see 1111 Financial auditors and accountants)
- Professional occupations in business management consulting (see 1122 Professional occupations in business management consulting)
- Software engineers and designers (see 2173 Software engineers and designers)
- Web designers and developers (see 2175 Web designers and developers)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Information systems business analysts and consultants
- Confer with clients to identify and document requirements
- Conduct business and technical studies
- Design, develop, integrate, test and implement information systems business solutions
- Provide advice on information systems strategy, policy, management, security and service delivery.
- Systems security analysts
- Confer with clients to identify and document requirements, assess physical and technical security risks to data, software and hardware
- Develop policies, procedures and contingency plans to minimize the effects of security breaches.
- Information systems quality assurance analysts
- Develop and implement policies and procedures throughout the software development life cycle to maximize the efficiency, effectiveness and overall quality of software products and information systems.
- Systems auditors
- Conduct independent third-party reviews to assess quality assurance practices, software products and information systems.

*Employment requirements*

- A bachelor's degree in computer science, computer systems engineering, software engineering, business administration or a related discipline or Completion of a college program in computer science is usually required.
- Actuaries are conferred fellowships through the Canadian Institute of Actuaries upon successful completion of professional examinations and Three years of work experience in the actuarial field as an actuarial assistant or in a related position.
- Actuaries usually require post-secondary education in actuarial science, mathematics, statistics, economics, commerce or business administration.

## 2172 Database analysts and data administrators

Database analysts design, develop and administer data management solutions using database management software. Data administrators develop and implement data administration policy, standards and models. They are employed in information technology consulting firms and in information technology units throughout the private and public sectors.

*Illustrative example(s)*

- data administrator
- data custodian
- data dictionary administrator
- data warehouse analyst
- database administrator
- database analyst
- database architect
- technical architect - database

*Exclusion(s)*

- Computer and information systems managers (see 0213 Computer and information systems managers)
- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)
- Software engineers and designers (see 2173 Software engineers and designers)
- Web designers and developers (see 2175 Web designers and developers)

*Main duties*

Database analysts and data administrators perform some or all of the following duties:

- Database analysts
- Collect and document user requirements
- Design and develop database architecture for information systems projects
- Design, construct, modify, integrate, implement and test data models and database management systems
- Conduct research and provide advice to other informatics professionals regarding the selection, application and implementation of database management tools
- Operate database management systems to analyze data and perform data mining analysis
- May lead, co-ordinate or supervise other workers in this group.
- Data administrators
- Develop and implement data administration policy, standards and models
- Research and document data requirements, data collection and administration policy, data access rules and security
- Develop policies and procedures for network and/or Internet database access and usage and for the backup and recovery of data
- Conduct research and provide advice to other information systems professionals regarding the collection, availability, security and suitability of data
- Write scripts related to stored procedures and triggers
- May lead and co-ordinate teams of data administrators in the development and implementation of data policies, standards and models.

*Employment requirements*

- Certification or training provided by software vendors may be required by some employers.
- Experience as a computer programmer is usually required.

## 2173 Software engineers and designers

Software engineers and designers research, design, evaluate, integrate and maintain software applications, technical environments, operating systems, embedded software, information warehouses and telecommunications software. They are employed in information technology consulting firms, information technology research and development firms, and information technology units throughout the private and public sectors, or they may be self-employed.

*Inclusion(s)*

- systems architect

*Illustrative example(s)*

- application architect
- computer software engineer
- embedded software engineer
- software architect
- software design engineer
- software design verification engineer
- software designer
- software testing engineer
- telecommunications software engineer

*Exclusion(s)*

- Computer and information systems managers (see 0213 Computer and information systems managers)
- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Database analysts and data administrators (see 2172 Database analysts and data administrators)
- Electrical and electronics engineers (see 2133 Electrical and electronics engineers)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)
- Information systems testing technicians (see 2283 Information systems testing technicians)
- Web designers and developers (see 2175 Web designers and developers)

*Main duties*

Software engineers and designers perform some or all of the following duties:

- Collect and document users' requirements and develop logical and physical specifications
- Research, evaluate and synthesize technical information to design, develop and test computer-based systems including mobile applications
- Develop data, process and network models to optimize architecture and to evaluate the performance and reliability of designs
- Plan, design and co-ordinate the development, installation, integration and operation of computer-based systems including mobile applications
- Assess, test, troubleshoot, document, upgrade and develop maintenance procedures for operating systems, communications environments and applications software
- May lead and co-ordinate teams of information systems professionals in the development of software and integrated information systems, process control software and other embedded software control systems.

*Employment requirements*

- A bachelor's degree, usually in computer science or in mathematics or Completion of a college program in computer science is usually required.
- A bachelor's degree, usually in computer science, computer systems engineering, software engineering or mathematics or Completion of a college program in computer science is usually required.
- A master's or doctoral degree in a related discipline may be required.
- Computer programming experience is usually required.

- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).

## 2174 Computer programmers and interactive media developers

Computer programmers write, modify, integrate and test computer code for software applications, data processing applications, operating systems-level software and communications software. Interactive media developers write, modify, integrate and test computer code for Internet and mobile applications, computer-based training software, computer games, film, video and other interactive media. They are employed in computer software development firms, information technology consulting firms, and in information technology units throughout the private and public sectors.

*Illustrative example(s)*

- application programmer
- business application programmer
- computer game developer
- computer programmer
- e-business (electronic business) software developer
- interactive media developer
- multimedia developer
- operating systems programmer
- programmer analyst
- scientific programmer
- software developer
- software programmer
- systems programmer
- Web programmer

*Exclusion(s)*

- Computer network technicians (see 2281 Computer network technicians)
- Database analysts and data administrators (see 2172 Database analysts and data administrators)
- E-business managers (see 0124 Advertising, marketing and public relations managers)
- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)
- Information systems testing technicians (see 2283 Information systems testing technicians)
- Software engineers and designers (see 2173 Software engineers and designers)
- Web designers and developers (see 2175 Web designers and developers)

*Main duties*

Computer programmers and interactive media developers perform some or all of the following duties:

- Computer programmers
- Write, modify, integrate and test software code
- Maintain existing computer programs by making modifications as required
- Identify and communicate technical problems, processes and solutions
- Prepare reports, manuals and other documentation on the status, operation and maintenance of software
- Assist in the collection and documentation of user requirements
- Assist in the development of logical and physical specifications
- May lead and co-ordinate teams of computer programmers
- May research and evaluate a variety of software products.
- Interactive media developers
- Program animation software to predefined specifications for interactive video games, Internet and mobile applications
- Program special effects software for film and video applications
- Write, modify, integrate and test software codes for e-commerce, Internet and mobile applications
- Assist in the collection and documentation of user requirements
- Assist in the development of logical and physical specifications

- May lead and co-ordinate teams of interactive media developers
- May research and evaluate a variety of interactive media software products.

*Employment requirements*

- Engineers are eligible for registration following graduation from an accredited educational program, three or four years of supervised work experience in engineering, and passing a professional practice examination.
- Experience as a computer programmer is usually required.

*Additional information*

- Progression to information systems analyst, software engineer or Web designer is possible with experience.

## 2175 Web designers and developers

Web designers and developers research, design, develop and produce Internet and Intranet sites. They are employed in computer software development firms, information technology consulting firms, information technology units throughout the private and public sectors, advertising agencies or they may be self-employed.

*Illustrative example(s)*

- e-business Web site developer
- Internet site designer
- Internet site developer
- Intranet site designer
- Web designer
- Web developer
- Web manager
- Web site developer
- Webmaster

*Exclusion(s)*

- Computer network technicians (see 2281 Computer network technicians)
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- E-business managers (see 0124 Advertising, marketing and public relations managers)
- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)
- Information systems testing technicians (see 2283 Information systems testing technicians)
- Network systems engineers (see 2147 Computer engineers (except software engineers and designers))

*Main duties*

Web designers and developers perform some or all of the following duties:

- Consult with clients to develop and document Web site requirements
- Prepare mock-ups and storyboards
- Develop Web site architecture and determine hardware and software requirements
- Source, select and organize information for inclusion and design the appearance, layout and flow of the Web site
- Create and optimize content for the Web site using a variety of graphics, database, animation and other software
- Plan, design, write, modify, integrate and test Web-site related code
- Conduct tests and perform security and quality controls
- May lead and co-ordinate multidisciplinary teams to develop Web site graphics, content, capacity and interactivity
- May research and evaluate a variety of interactive media software products.

*Employment requirements*

- A bachelor's degree in computer science or in another discipline with a significant programming component or Completion of a college program in computer science is usually required.
- Specialization in programming for engineering and scientific applications requires specific post-secondary study or experience.

## 22 Technical occupations related to natural and applied sciences

This major group comprises technical occupations in natural and applied sciences. It includes technologists and technicians working in the fields of physical science, life science, engineering, architecture, urban planning, land surveying, mathematics, statistics, and actuarial science; and as computer and information systems technicians.

## 221 Technical occupations in physical sciences

This minor group includes chemical, geological and mineral technologists and technicians. They are employed by research and development and quality control laboratories; consulting geology and engineering firms, chemical, petrochemical, pharmaceutical, construction, petroleum and mining companies; utilities; in manufacturing and processing industries; and by government, health and educational establishments.

## 2211 Chemical technologists and technicians

Chemical technologists and technicians provide technical support and services or may work independently in chemical engineering, chemical and biochemical research and analysis, industrial chemistry, chemical quality control and environmental protection. They are employed by research and development and quality control laboratories, consulting engineering companies, in chemical, petrochemical, pharmaceutical and a variety of other manufacturing and processing industries, and by utilities, health, educational and government establishments.

*Inclusion(s)*

- documents examiner - applied chemistry
- forensic handwriting expert

*Illustrative example(s)*

- biochemistry technologist
- chemical analyst
- chemical engineering technician
- chemical engineering technologist
- chemical laboratory analyst
- chemical research technician
- chemical technician
- chemical technologist
- food technologist
- formulation technician
- geochemical technician
- industrial hygiene technologist
- mass spectrometer technician
- master dyer - textiles
- paint technician
- pilot plant technician
- quality control technician - chemical processing
- quality control technician - food processing

*Exclusion(s)*

- Biochemistry technologists working as medical laboratory technologists (see 3211 Medical laboratory technologists)
- Process technicians who operate the controls of chemical or petrochemical processing plants (see 9232 Central control and process operators, petroleum, gas and chemical processing)

*Main duties*

Chemical technologists and technicians perform some or all of the following duties:

- Chemical technologists
- Set up and conduct chemical experiments, tests and analyses using techniques such as chromatography, spectroscopy, physical and chemical separation techniques and microscopy
- Operate and maintain laboratory equipment and apparatus and prepare solutions of gas or liquid, reagents, and sample formulations
- Compile records and interpret experimental or analytical results
- Develop and conduct programs of sampling and analysis to maintain quality standards of raw materials, chemical intermediates and products
- Assist in the development of chemical engineering processes, studies of chemical engineering procurement, construction, inspection and maintenance and the development of standards, procedures and health and safety measures
- Operate experimental chemical or petrochemical pilot plants
- Conduct or assist in air and water quality testing and assessments, environmental monitoring and protection activities, and development of and compliance with standards
- Assist in synthesis of small molecules for the purpose of creating drug candidates
- Assist in the design and fabrication of experimental apparatus.
- Chemical technicians
- Assist in setting up and conducting chemical experiments, tests and analyses
- Operate and maintain laboratory equipment and apparatus and prepare solutions of gas and liquid, reagents and sample formulations
- Compile records for analytical studies
- Assist in developing and conducting programs of sampling and analysis to maintain quality standards
- Carry out a limited range of other technical functions in support of chemical research, tests and analyses, and environmental air and water quality monitoring and protection
- Assist in the design and fabrication of experimental apparatus.

*Employment requirements*

- A bachelor's degree, usually in computer science, communications or business or Completion of a college program in computer science, graphic arts, Web design or business is required.
- Certification in chemical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- Chemical technicians usually require completion of a one- or two-year college program in chemical, biochemical or chemical engineering technology.
- Chemical technologists usually require completion of a two- or three-year college program in chemical, biochemical or chemical engineering technology or a closely related discipline.
- Experience as a computer programmer or graphic designer is usually required.
- National certification for chemical technologists and technicians is available through the Canadian Society for Chemical Technology.

*Additional information*

- Considerable mobility is possible among jobs within this occupational group.
- Progression to managerial positions is possible with experience.
- Some chemical technologists and technicians working in support of fundamental research in chemistry or biochemistry are university graduates.

## 2212 Geological and mineral technologists and technicians

Geological and mineral technologists and technicians provide technical support and services or may work independently in the fields of oil and gas exploration and production, geophysics, petroleum engineering, geology, mining and mining engineering, mineralogy, extractive and physical metallurgy, metallurgical engineering and environmental protection. They are employed by petroleum and mining companies, consulting geology and engineering firms, and by governments and educational institutions as well as by a variety of manufacturing, construction and utilities companies.

*Inclusion(s)*

- laboratory technician - metallurgy

*Illustrative example(s)*

- assayer
- geological technician
- geophysical technologist
- groundwater technologist
- log technician
- marine geoscience technologist
- metallurgical technologist
- mineralogy technician
- mining engineering technologist
- mining technologist
- petroleum engineering technologist
- petroleum technician
- petrology technician
- reservoir engineering technician
- rock mechanics technician
- seismic technician
- welding technologist

*Exclusion(s)*

- Civil engineering technologists and technicians (see 2231 Civil engineering technologists and technicians)
- Contractors and supervisors, oil and gas drilling and services (see 8222 Contractors and supervisors, oil and gas drilling and services)
- Electrical and electronics engineering technologists and technicians (see 2241 Electrical and electronics engineering technologists and technicians)
- Supervisors, mining and quarrying (see 8221 Supervisors, mining and quarrying)
- Technical occupations in geomatics and meteorology (see 2255 Technical occupations in geomatics and meteorology)
- Technologists and technicians whose primary duties are to perform chemical laboratory tests (see 2211 Chemical technologists and technicians)

*Main duties*

Geological and mineral technologists and technicians perform some or all of the following duties:

- Geological and mineral technologists
- Conduct or direct geological, geophysical, geochemical, hydrographic or oceanographic surveys, prospecting field trips, exploratory drilling, well logging or underground mine survey programs
- Configure, operate and maintain geophysical survey and well logging instruments and equipment
- Prepare notes, sketches, geological maps and cross sections
- Prepare, transcribe or analyze seismic, gravimetric, well log or other geophysical and survey data
- Assist engineers and geologists in the evaluation and analysis of petroleum and mineral reservoirs
- Prepare or supervise the preparation of rock, mineral or metal samples and perform physical and chemical laboratory tests
- Conduct or assist in environmental audits, in the design of measures to minimize undesirable environmental effects of new or expanded mining and oil and gas operations, and in the development of waste management and other related environmental protection procedures
- May supervise oil and gas well drilling, well completions and work-overs
- May conduct or supervise studies and programs related to mine development, mining methods, mine ventilation, lighting, drainage and ground control
- May assist engineers and metallurgists in specifying material selection, metal treatments or corrosion protection systems
- May assist hydrogeologists in evaluating groundwater and well circulation and in report preparation
- May develop specifications for heat treatment of metals or for welding, design welding fixtures, troubleshoot welding processes or quality problems and supervise welding projects

- May co-ordinate crew members' activities during seismic tests.
- Geological and mineral technicians
- Participate in geological, geophysical, geochemical, hydrographic or oceanographic surveys, prospecting field trips, exploratory drilling, well logging or underground mine survey programs and in environmental audits and related environmental protection activities
- Operate and maintain geophysical survey and well logging instruments and equipment
- Prepare notes, sketches, geological maps and cross sections
- Assist in preparing, transcribing or analyzing seismic, gravimetric, well log or other geophysical and survey data
- Assist in the preparation of rock, mineral or metal samples and in conducting physical and chemical laboratory tests
- Assist in hydrogeological field and laboratory studies and in preparation of reports
- Carry out a limited range of other technical functions in support of geology, geophysics and petroleum and mining engineering.

*Employment requirements*

- A period of supervised work experience, usually two years, is required before certification.
- Certification in geological and mineral technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required by employers.
- Chemical technologists and technicians are regulated in Quebec and Alberta.
- Geological and mineral technicians usually require completion of a one- to two-year college program in a related field.
- Geological and mineral technologists usually require completion of a two- to three-year college program in geological technology, petroleum technology, petroleum engineering technology, hydrogeology or groundwater technology, mining technology, mining engineering technology, mineralogy, metallurgical technology, or welding technology.
- Geophysics technologists usually require completion of a two- to three-year college program in electronics technology.

*Additional information*

- Mobility may be possible between geophysical technology and electronic technology.
- Mobility may be possible between some occupations in this group and related fields of civil engineering technology.
- There is limited mobility among occupations in this group.

## 222 Technical occupations in life sciences

This minor group includes biological, forestry, landscape and horticulture technologists and technicians as well as agricultural and fish products inspectors and conservation and fisheries officers. They are employed by governments and government agencies; manufacturers of food products, chemicals and pharmaceuticals; biotechnology, resource, utilities, environmental and other consulting companies; health, research, educational and other institutions; forestry and other industries; landscape designers and contractors, lawn service and tree care establishments, golf courses, nurseries and greenhouses; and municipal, provincial and national parks; or they may be self-employed.

### 2221 Biological technologists and technicians

Biological technologists and technicians provide technical support and services to scientists, engineers and other professionals working in fields such as agriculture, resource management, environmental protection, plant and animal biology, microbiology, cell and molecular biology and health sciences, or may work independently in these fields. They are employed in both laboratory and field settings by governments, manufacturers of food products, chemicals and pharmaceuticals, biotechnology companies, health, research and educational institutions, environmental consulting companies, and resource and utilities companies.

*Illustrative example(s)*
- agricultural technician
- agricultural technologist
- agrology technician
- aquaculture technician
- bacteriological technician
- biological laboratory technologist
- botanical technician
- fish hatchery technician
- fisheries technician
- food bacteriological technician
- microbiology quality control technologist
- microbiology technologist (except medical)
- plant breeding technician
- seed technologist
- wildlife biology technician

*Exclusion(s)*
- Agricultural and fish products inspectors (see 2222 Agricultural and fish products inspectors)
- Biochemistry technologists and biochemistry laboratory technicians (see 2211 Chemical technologists and technicians)
- Biologists and related scientists (see 2121 Biologists and related scientists)
- Biomedical engineering technologists (see 2241 Electrical and electronics engineering technologists and technicians)
- Conservation and fishery officers (see 2224 Conservation and fishery officers)
- Forestry technologists and technicians (see 2223 Forestry technologists and technicians)
- Medical laboratory technicians and pathologists' assistants (see 3212 Medical laboratory technicians and pathologists' assistants)
- Medical laboratory technologists (see 3211 Medical laboratory technologists)

*Main duties*

Biological technologists and technicians perform some or all of the following duties:
- Biological technologists
- Set up and conduct biological, microbiological and biochemical tests and laboratory analyses in support of research and quality control in food production, sanitation, pharmaceutical production, biotechnology and other fields
- Apply methods and techniques such as microscopy, histochemistry, chromatography, electrophoresis and spectroscopy
- Perform experimental procedures in agriculture, plant breeding, animal husbandry, biology and biomedical research
- Conduct field research and surveys to collect data and samples of water, soil, and plant and animal populations
- Conduct environmental monitoring and compliance activities for the protection of fisheries stock, wildlife and other natural resources
- Analyze data and prepare reports
- Conduct or supervise operational programs such as fish hatchery, greenhouse and livestock production programs.
- Biological technicians
- Assist in conducting biological, microbiological and biochemical tests and laboratory analyses
- Perform limited range of technical functions in support of agriculture, plant breeding, animal husbandry, biology, biomedical research and environmental protection
- Assist in conducting field research and surveys to collect data and samples of water, soil, and plant and animal populations
- Assist in analysis of data and preparation of reports.

*Employment requirements*
- A period of supervised work experience, usually two years, is required before certification.
- Completion of a two- to three-year college program in a field related to agriculture, biology, microbiology, wildlife or resource management is usually required for employment as a biological technologist.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."

*Additional information*
- Some technologists and technicians working in support of government and academic research in biology are university graduates.
- There is limited mobility among occupations in this group.

## 2222 Agricultural and fish products inspectors

Agricultural and fish products inspectors inspect agricultural and fish products for conformity to prescribed production, storage and transportation standards. They are employed by government departments and agencies and by private sector food processing companies. Supervisors of agricultural and fish products inspectors are also included in this group.

*Illustrative example(s)*
- agricultural products inspection supervisor
- agricultural products inspector
- crop certification inspector
- dairy products inspector
- fish inspector
- fish products inspection supervisor
- fish products inspector
- fruit and vegetables inspector
- grain inspector
- livestock inspector
- meat inspector
- plant protection inspector
- poultry inspector

*Exclusion(s)*
- Biological technologists and technicians (see 2221 Biological technologists and technicians)
- Fish graders and meat graders who perform routine quality control duties or tally landed fish (see 9465 Testers and graders, food and beverage processing)
- Forestry technologists and technicians (see 2223 Forestry technologists and technicians)
- Inspectors in public and environmental health and occupational health and safety (see 2263 Inspectors in public and environmental health and occupational health and safety)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:
- Fish and fish products inspectors inspect fish, fish products, fish handling and processing methods and prepare reports and ensure that regulations are followed.
- Fruit and vegetables inspectors inspect fresh and frozen fruit and vegetables at inspection centres and prepare reports on crop production and market conditions.
- Grain inspectors inspect and grade all classes of grain at terminal elevators, monitor the fumigation of infested grain, and examine storage, handling and transportation equipment to ensure that sanitary procedures are followed.
- Meat inspectors monitor the operations and sanitary conditions of slaughtering and meat processing plants and inspect carcasses to ensure they are fit for human consumption.
- Plant protection inspectors certify seed crops, oversee the quarantine, treatment or destruction of plants and plant products, and the fumigation of plants and plant product imports and exports.

*Employment requirements*

- Certification with provincial associations is available, but voluntary.
- Completion of a one- to two-year college program in a related field is required for employment as a biological technician.
- Completion of secondary school is required.
- Government inspectors usually require a bachelor's degree or college diploma in agriculture, biology, chemistry, food processing technology or a related discipline.
- Inspectors (other than government) may require a bachelor's degree or college diploma in a related discipline.

*Additional information*

- Progression to managerial positions in this field is possible with experience.

## 2223 Forestry technologists and technicians

Forestry technologists and technicians may work independently or perform technical and supervisory functions in support of forestry research, forest management, forest harvesting, forest resource conservation and environmental protection. They are employed by the forest industry sector, provincial and federal governments, consulting firms, and other industries and institutions, or they may be self-employed.

*Inclusion(s)*

- range manager

*Illustrative example(s)*

- conservation technician - forestry
- cruising technician - forestry
- enforcement officer - forestry
- extension ranger - forestry
- fire suppression officer - forestry
- forest fire technician
- forest inventory resource officer
- forest survey technician
- forest technician
- forestry technician
- forestry technologist
- resource technician - forestry
- scaler technician - logging
- scaling co-ordinator - logging
- silviculture technician

*Exclusion(s)*

- Biological technologists and technicians (see 2221 Biological technologists and technicians)
- Conservation and fishery officers (see 2224 Conservation and fishery officers)
- Foresters and forest engineers (see 2122 Forestry professionals)
- Supervisors, logging and forestry (see 8211 Supervisors, logging and forestry)

*Main duties*

Forestry technologists and technicians perform some or all of the following duties:

- Conduct, supervise and participate in forest inventory cruises, surveys and field measurements following accepted scientific and operational procedures
- Assist and perform technical functions in the preparation of forest management and harvest plans using photogrammetric and mapping techniques and computerized information systems
- Assist in planning and supervise construction of access routes and forest roads
- Implement, supervise and perform technical functions in silvicultural operations involving site preparation, planting, and tending of tree crops

- Co-ordinate activities such as timber scaling, forest fire suppression, disease or insect control or pre-commercial thinning of forest stands
- Supervise and perform technical functions in forest harvesting operations
- Monitor activities of logging companies and contractors and enforce regulations such as those concerning environmental protection, resource utilization, fire safety and accident prevention
- Provide forestry education, advice and recommendations to woodlot owners, community organizations and the general public
- Develop and maintain computer databases
- Supervise forest tree nursery operations
- Provide technical support to forestry research programs in areas such as tree improvement, seed orchard operations, insect and disease surveys or experimental forestry and forest engineering research.

*Employment requirements*

- Completion of a one- to three-year college program in forestry technology or in a renewable resource program or forest ranger program is usually required.
- Completion of in-house training courses is required.
- Registration with a regulatory body is required for forestry technologists or technicians in all provinces except Prince Edward Island and Manitoba.
- Several years of experience in agricultural production or fish processing are usually required.

*Additional information*

- Mobility may be possible to occupations in natural resource and wildlife management and in parks management.

## 2224 Conservation and fishery officers

This unit group includes conservation and fishery officers, inspectors and observers who enforce federal and provincial regulations established for the protection of fish, wildlife and other natural resources and collect and relay information on resource management. They are employed by federal and provincial government departments.

*Illustrative example(s)*

- conservation officer
- fish and wildlife officer
- fishery officer
- forest ranger - wildlife management
- game officer
- game warden
- natural resources officer
- park ranger

*Exclusion(s)*

- Biological technologists and technicians (see 2221 Biological technologists and technicians)
- Fish inspectors (see 2222 Agricultural and fish products inspectors)
- Forestry technologists and technicians (see 2223 Forestry technologists and technicians)

*Main duties*

Conservation and fishery officers, inspectors and observers perform some or all of the following duties:

- Generate public awareness of fish and wildlife conservation and regulations
- Conduct patrols by truck, aircraft, boat, or on foot, to ensure compliance with the provincial and federal statutes relating to fish, wildlife and the environment
- Investigate complaints, arrest violators, prepare briefs and present evidence in court
- Issue licences, export documents and special permits and collect royalties assessed on fish, wildlife and timber resources
- Implement and supervise approved techniques in preventing or overcoming damage caused by wildlife
- Perform resource protection duties, such as inspecting fishing gear and equipment and monitoring fishing activities for compliance with regulations

- Gather resource data by making inventories of fish, collecting water samples and assisting biologists in scientific research
- Supervise or provide firearms safety training courses and trapper education courses.

*Employment requirements*

- Certification or licensing as a scaler is required for some positions.
- Completion of a college program in renewable resources management, environmental conservation or a related discipline is usually required.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."

*Additional information*

- Progression to senior and supervisory positions is possible with experience.

## 2225 Landscape and horticulture technicians and specialists

This unit group includes those who survey and assess landscapes; draw sketches and build models of landscape designs; construct and maintain gardens, parks, golf courses and other landscaped environments; advise clients on issues related to horticulture such as irrigation; breed, cultivate and study plants; and treat injured and diseased trees and plants. They are employed by landscape designers and contractors, lawn service and tree care establishments, golf courses, nurseries and greenhouses, and municipal, provincial and national parks, or they may be self-employed.

*Illustrative example(s)*

- arborist
- golf course superintendent
- greenskeeper
- horticultural technician
- horticulture specialist
- horticulturist
- hydroponics technician
- landscape architectural technician
- landscape designer
- landscape gardener
- landscape technician
- landscaper
- lawn care specialist
- tree service technician

*Exclusion(s)*

- Biological technologists and technicians (see 2221 Biological technologists and technicians)
- Botanists (see 2121 Biologists and related scientists)
- Contractors and supervisors, landscaping, grounds maintenance and horticulture services (see 8255 Contractors and supervisors, landscaping, grounds maintenance and horticulture services)
- Forestry technologists and technicians (see 2223 Forestry technologists and technicians)
- Landscape architects (see 2152 Landscape architects)
- Managers in horticulture (see 0822 Managers in horticulture)
- Nursery and greenhouse workers (see 8432 Nursery and greenhouse workers)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Arborists and tree service technicians examine trees and shrubs to diagnose problems and disease, and apply various treatments such as pruning, spraying, repairing damaged areas and injecting with treatment solutions.

- Golf course superintendents direct crews who maintain the health and appearance of golf courses and their surrounding landscapes, plant and move trees, and apply fertilizers, fungicides, herbicides and pesticides.
- Horticulturists plan and co-ordinate the growth and use of plants for landscaping, ornamental uses and other purposes.
- Landscape designers and landscape architectural technicians and technologists survey and assess sites, prepare drawings, sketches and reports and perform other duties to assist landscape architects in designing landscaped environments.
- Landscape gardeners plant and maintain private and public lawns and gardens.
- Landscapers plan and construct landscaped environments which may include trees, shrubberies, lawns, fences, decks, patios and other landscape structures.
- Lawn care specialists visit clients, assess the health of lawns, and apply fertilizer, pesticides and other lawn care products.

*Employment requirements*

- A class-5 driver's licence, pesticide applicator's licence and explosives licence may be required.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.
- An apprenticeship program is available for horticulturists, arboriculturists and landscape gardeners.
- Completion of a university or college program in agronomy, arboriculture, horticulture, landscaping, landscape design or landscape technology is usually required.
- Experience as a landscape and grounds maintenance labourer may be required for golf course superintendents, landscape gardeners and landscapers.
- On-the-job training and courses related to law enforcement and resource management are provided.
- Trade certification for landscape horticulturists is available, but voluntary, in all provinces.

*Additional information*

- The Red Seal endorsement allows for interprovincial mobility.

## 223 Technical occupations in civil, mechanical and industrial engineering

This minor group includes technologists and technicians working in civil, mechanical and industrial engineering. They are employed by public works, transportation and other government departments; consulting engineering, insurance, manufacturing, processing and residential, commercial and industrial construction companies; major electrical, mechanical and trade contractors; and in many other industries; or they may be self-employed.

### 2231 Civil engineering technologists and technicians

Civil engineering technologists and technicians provide technical support and services to scientists, engineers and other professionals, or may work independently in fields such as structural engineering, municipal engineering, construction design and supervision, highways and transportation engineering, water resources engineering, geotechnical engineering and environmental protection. They are employed by consulting engineering and construction companies, public works, transportation and other government departments and in many other industries.

*Illustrative example(s)*

- bridge design technician
- building materials technician
- civil engineering technician
- civil engineering technologist
- construction specifications writer
- construction technologist
- foundation technologist
- highway technician
- municipal engineering assistant
- soil technologist - civil engineering
- structural design technologist

- structural investigator

*Exclusion(s)*

- Architectural technologists and technicians (see 2251 Architectural technologists and technicians)
- Construction estimators (see 2234 Construction estimators)
- Construction inspectors (see 2264 Construction inspectors)
- Construction managers (see 0711 Construction managers)
- Drafting technologists and technicians (see 2253 Drafting technologists and technicians)
- Land survey technologists and technicians (see 2254 Land survey technologists and technicians)
- Urban and land use planners (see 2153 Urban and land use planners)

*Main duties*

Civil engineering technologists and technicians perform some or all of the following duties:

- Civil engineering technologists
- Develop conventional and computer-assisted design (CAD) engineering designs and drawings from preliminary concepts and sketches
- Prepare construction specifications, cost and material estimates, project schedules and reports
- Supervise or conduct field surveys, inspections or technical investigations of topography, soils, drainage and water supply systems, road and highway systems, buildings and structures to provide data for engineering projects
- Conduct or supervise inspection and testing of construction materials
- May supervise, monitor and inspect construction projects.
- Civil engineering technicians
- Assist in developing engineering specifications and drawings
- Participate in field surveys, inspections or technical investigations of topography, soils, drainage and water supply systems, road and highway systems, buildings and structures to provide data for engineering projects
- Perform other technical functions in support of civil engineering activities.

*Employment requirements*

- Certification in civil engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- Completion of a one- or two-year college program in civil engineering technology is usually required for civil engineering technicians.
- Completion of a two- or three-year college program in civil engineering technology or a closely related discipline is usually required for civil engineering technologists.
- In Quebec, membership in the regulatory body is required to use the title of Professional Technologist.
- Red Seal endorsement is also available to qualified landscape horticulturists upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Progression to construction supervisors or construction managers is possible with experience.
- There is mobility to related occupations, such as drafting technologists and technicians and construction inspectors and estimators.

## 2232 Mechanical engineering technologists and technicians

Mechanical engineering technologists and technicians provide technical support and services or may work independently in mechanical engineering fields such as the design, development, maintenance and testing of machines, components, tools, heating and ventilating systems, geothermal power plants, power generation and power conversion plants, manufacturing plants and equipment. They are employed by consulting engineering, manufacturing and processing companies, institutions and government departments.

*Illustrative example(s)*

- aeronautical technologist
- heating designer

- heating, ventilation and air conditioning (HVAC) technologist
- machine designer
- marine engineering technologist
- mechanical engineering technician
- mechanical engineering technologist
- mechanical technologist
- mould designer
- thermal station technician
- tool and die designer
- tool designer

*Exclusion(s)*

- Drafting technologists and technicians (see 2253 Drafting technologists and technicians)
- Industrial designers (see 2252 Industrial designers)
- Managers in manufacturing and utilities (see 091 Managers in manufacturing and utilities)
- Technical sales specialists - wholesale trade (see 6221 Technical sales specialists - wholesale trade)

*Main duties*

Mechanical engineering technologists and technicians perform some or all of the following duties:

- Mechanical engineering technologists
- Prepare and interpret conventional and computer-assisted design (CAD) engineering designs, drawings, and specifications for machines and components, power transmission systems, process piping, heating, ventilating and air-conditioning systems
- Prepare cost and material estimates, project schedules and reports
- Conduct tests and analyses of machines, components and materials to determine their performance, strength, response to stress and other characteristics
- Design moulds, tools, dies, jigs and fixtures for use in manufacturing processes
- Inspect mechanical installations and construction
- Prepare contract and tender documents
- Supervise, monitor and inspect mechanical installations and construction projects
- Prepare standards and schedules and supervise mechanical maintenance programs or operations of mechanical plants.
- Mechanical engineering technicians
- Assist in preparing conventional and computer-assisted design (CAD) engineering designs, drawings and specifications
- Carry out a limited range of mechanical tests and analyses of machines, components and materials
- Assist in the design of moulds, tools, dies, jigs and fixtures for use in manufacturing processes
- Assist in inspection of mechanical installations and construction projects
- Participate in the installation, repair and maintenance of machinery and equipment.

*Employment requirements*

- A period of supervised work experience, usually two years, is required before certification.
- Certification in mechanical engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- Completion of a one- or two-year college program in industrial engineering technology or in a related discipline is usually required for industrial engineering or manufacturing technicians.
- Completion of a two- or three-year college program or equivalent in industrial engineering technology, pulp and paper technology, plastics technology, textile technology, manufacturing technology or a related discipline is usually required for industrial engineering or manufacturing technologists.
- In Quebec, membership in the regulatory body is required to use the title "Professional Technologist."

*Additional information*

- Progression to supervisory occupations such as mechanical construction supervisor, manufacturing supervisor or operations maintenance manager is possible with experience.

- There is mobility to other related occupations such as technical sales or drafting technologists and technicians.

## 2233 Industrial engineering and manufacturing technologists and technicians

Industrial engineering and manufacturing technologists and technicians may work independently or provide technical support and services in the development of production methods, facilities and systems, and the planning, estimating, measuring and scheduling of work. They are employed by manufacturing and insurance companies, government departments, and establishments in other industries.

*Illustrative example(s)*

- CAD/CAM programmer
- industrial engineering technician
- industrial engineering technologist
- loss prevention technologist - manufacturing
- manufacturing technician
- manufacturing technologist
- planning technician
- plastics manufacturing technician
- pulp and paper manufacturing technologist
- quality assurance technologist
- scheduling technician - manufacturing
- textile technologist
- time study analyst

*Exclusion(s)*

- Machining, metal forming, shaping and erecting trades (see 723 Machining, metal forming, shaping and erecting trades)
- Technical sales specialists - wholesale trade (see 6221 Technical sales specialists - wholesale trade)
- Textile technologists/technicians working in support of chemical dyeing and finishing and quality control technologists/technicians in food or chemical industries or laboratories (see 2211 Chemical technologists and technicians)

*Main duties*

Industrial engineering and manufacturing technologists and technicians perform some or all of the following duties:

- Industrial engineering and manufacturing technologists
- Develop and conduct production, inventory and quality assurance programs in manufacturing or in other industries
- Design plant layouts and production facilities
- Develop and carry out work study and related programs
- Develop and carry out industrial health, safety and fire prevention plans and programs and conduct safety training programs
- Develop applications using CAD/CAM (computer-assisted drafting, computer-assisted manufacturing) for the control of robots, computer numerical control (CNC) machines and other manufacturing processes and operations.
- Industrial engineering and manufacturing technicians
- Assist in the design of plant layouts
- Conduct work measurement or other studies
- Collect and compile operational or experimental data and assist in the development of estimates, schedules, specifications and reports
- Collect and analyze data and samples in support of quality assurance and industrial health and safety programs
- Develop manufacturing and processing procedures and variables, set machine or equipment controls, oversee production and inspect processes.

- Technologists and technicians in this unit group may specialize in the development of production processes, quality assurance programs, plans and schedules in a particular industrial area such as metal fabrication, plastics, pulp and paper, or textile manufacturing.

*Employment requirements*

- A college diploma in manufacturing technology and/or trade certification and experience in machining and tooling or metalworking is required for CAD-CAM/CNC programmers.
- A period of supervised work experience, usually two years, is required before certification.
- Certification in industrial engineering or manufacturing technology or in a related field is available through provincial or territorial associations of engineering/applied science technologists and technicians and may be required for some positions.
- Completion of a college or university program in mining technology or engineering may be required for some positions in this group.
- Completion of secondary school is required.
- In Quebec, membership in the regulatory body is required to use the title "Professional Technologist."

*Additional information*

- Progression to managerial positions is possible with experience.
- There is mobility to related fields such as technical sales.

## 2234 Construction estimators

Construction estimators analyze costs of and prepare estimates on civil engineering, architectural, structural, electrical and mechanical construction projects. They are employed by residential, commercial and industrial construction companies and major electrical, mechanical and trade contractors, or they may be self-employed.

*Illustrative example(s)*

- chief estimator - construction
- construction estimator
- cost estimator - construction
- principal estimator - construction
- professional quantity surveyor
- quantity surveyor - construction

*Exclusion(s)*

- Architectural technologists and technicians (see 2251 Architectural technologists and technicians)
- Civil engineering technologists and technicians (see 2231 Civil engineering technologists and technicians)
- Civil engineers (see 2131 Civil engineers)
- Construction managers (see 0711 Construction managers)

*Main duties*

Construction estimators perform some or all of the following duties:

- Prepare estimates of probable costs of materials, labour and equipment for construction projects based on contract bids, quotations, schematic drawings and specifications
- Advise on tendering procedures, examine and analyze tenders, recommend tender awards and conduct negotiations
- Establish and maintain tendering process and set up cost monitoring and reporting systems and procedures
- Prepare cost and expenditure statements and forecasts at regular intervals for the duration of a project
- Prepare and maintain a directory of suppliers, contractors and subcontractors
- Liaise, consult and communicate with engineers, architects, owners, contractors and subcontractors, and prepare economic feasibility studies on changes and adjustments to cost estimates
- Manage and co-ordinate construction projects and prepare construction progress schedules.
- Estimators may specialize in estimating costs for structural, electrical or mechanical construction projects.

*Employment requirements*

- A period of supervised work experience, usually two years, is required before certification.
- Completion of secondary school is required.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."

*Additional information*

- Progression to more senior positions in this unit group, such as senior estimator or to construction management positions is possible with experience.

## 224 Technical occupations in electronics and electrical engineering

This minor group includes technologists and technicians working in electrical and electronics engineering, household and business electronic equipment service and repair, industrial instrument repair and maintenance, and aircraft and avionics instrument repair, installation and maintenance. They are employed by governments ; electrical utilities; communications, consulting, pulp and paper processing, nuclear and hydro power generating, mining, petrochemical and natural gas, industrial instrument and other manufacturing companies; manufacturers of electrical and electronic equipment; and in a wide range of manufacturing, processing and transportation industries; by industrial instrument servicing, electronic service, and retail establishments; wholesale distributors; aircraft manufacturing, maintenance, repair and overhaul establishments; and by airlines and other aircraft operators.

## 2241 Electrical and electronics engineering technologists and technicians

Electrical and electronics engineering technologists and technicians may work independently or provide technical support and services in the design, development, testing, production and operation of electrical and electronic equipment and systems. They are employed by electrical utilities, communications companies, manufacturers of electrical and electronic equipment, consulting firms, and in governments and a wide range of manufacturing, processing and transportation industries.

*Illustrative example(s)*

- communications technologist
- electrical engineering technician
- electrical engineering technologist
- electricity distribution network technologist
- electronics design technologist
- electronics engineering technician
- electronics engineering technologist
- electronics manufacturing technician
- electronics manufacturing technologist
- lighting technologist
- metering technologist
- microwave maintenance technician
- production support technician - electronics manufacturing

*Exclusion(s)*

- Aircraft instrument, electrical and avionics mechanics, technicians and inspectors (see 2244 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Electronic service technicians (household and business equipment) (see 2242 Electronic service technicians (household and business equipment))
- Engineering managers (see 0211 Engineering managers)
- Industrial instrument technicians and mechanics (see 2243 Industrial instrument technicians and mechanics)
- Manufacturing managers (see 0911 Manufacturing managers)
- Technical sales specialists - wholesale trade (see 6221 Technical sales specialists - wholesale trade)

*Main duties*

Electrical and electronics engineering technologists and technicians perform some or all of the following duties:

- Electrical and electronics engineering technologists
- Design, develop and test power equipment and systems, industrial process control systems, telecommunication, broadcast, recording and audiovisual systems, micro-electronic systems and circuits, computers, computer systems and networks, and computer software
- Supervise the building and testing of prototypes according to general instructions and established standards
- Conduct or supervise the installation, commissioning, and operation of electrical and electronic equipment and systems other than aircraft electronics or instruments
- Carry out applied research in fields of electrical and electronic engineering and physics under the direction of scientists or engineers
- Set up and operate specialized and standard test equipment to diagnose, test and analyze the performance of electrical and electronic components, assemblies and systems
- Write specifications, schedules and technical reports and control schedules and budgets.
- Electrical and electronics engineering technicians
- Assist in the design, development and testing of electrical and electronic components, equipment, and systems
- Assist in inspection, testing, adjusting and evaluation of incoming electrical, electro-mechanical and electronic components and assemblies to ensure conformance with product specifications and tolerances
- Conduct life tests (burn-ins) on assemblies and record and analyze results
- Assist in building and testing prototypes to specifications
- Carry out a limited range of technical functions in support of research in electrical and electronic engineering and physics
- Install, operate and maintain electrical and electronic equipment and systems
- Calibrate electrical or electronic equipment and instruments according to technical manuals and written instructions
- Collect and compile operational or experimental data and assist in the preparation of estimates, schedules, budgets, specifications and reports.

*Employment requirements*

- Certification by the Canadian Institute of Quantity Surveyors is usually required.
- Certification in electrical or electronics engineering technology or in a related field is available through provincial associations of engineering/applied science technologists and technicians and may be required for some positions.
- Completion of a one- or two-year college program in electrical or electronics engineering technology is usually required for electrical or electronics engineering technicians.
- Completion of a three-year college program in civil or construction engineering technology or Several years of experience as a qualified tradesperson in a construction trade such as plumbing, carpentry or electrical, are required.
- Completion of a two- or three-year college program in electrical or electronics engineering technology, computer engineering technology, telecommunications technology or an equivalent is usually required for electrical or electronics engineering technologists.

*Additional information*

- Progression to managerial positions in engineering, production or operations is possible with experience.
- There is mobility to other related occupations such as technical sales, electronics service technicians, instrument technicians and avionics technicians.

## 2242 Electronic service technicians (household and business equipment)

Electronic service technicians service and repair household and business electronic equipment such as audio and video systems, computers and peripherals, office equipment and other consumer electronic equipment and assemblies. They are employed by electronic service and retail establishments, by wholesale distributors and within service departments of electronic manufacturing companies.

*Illustrative example(s)*

- alarm system technician
- audio-video service technician
- computer service technician
- electronic products field service technician
- electronic service technician apprentice
- electronic service technician supervisor
- office equipment service technician
- photocopy machine technician
- radio and television service technician
- satellite antenna servicer

*Exclusion(s)*

- Electrical and electronics engineering technologists and technicians (see 2241 Electrical and electronics engineering technologists and technicians)
- Telecommunications installation and repair workers (see 7246 Telecommunications installation and repair workers)

*Main duties*

Electronic service technicians perform some or all of the following duties:

- Install, maintain and repair household and business electronic equipment, such as televisions, radios, DVD and blueray players, projectors, stereo equipment, photocopiers, computers and peripherals
- Inspect and test electronic equipment, components and assemblies using multimeters, circuit testers, oscilloscopes, logic probes and other electronic test instruments, tools and equipment
- Diagnose and locate circuit, component and equipment faults
- Adjust, align, replace or repair electronic equipment, assemblies and components following equipment manuals and schematics, and using soldering tools and other hand and power tools
- Complete work orders, test and maintenance reports
- May supervise other electronic equipment service technicians.

*Employment requirements*

- A period of supervised work experience, usually two years, is required before certification.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."

*Additional information*

- Progression to supervisory positions is possible with experience.

## 2243 Industrial instrument technicians and mechanics

Industrial instrument technicians and mechanics repair, maintain, calibrate, adjust, and install industrial measuring and controlling instrumentation. They are employed by pulp and paper processing companies, nuclear and hydro power generating companies, mining, petrochemical and natural gas companies, industrial instrument and other manufacturing companies, and by industrial instrument servicing establishments.

*Illustrative example(s)*

- apprentice industrial instrument mechanic
- industrial instrument mechanic
- industrial instrument technician
- industrial instrumentation technician
- process control equipment mechanic

*Exclusion(s)*

- Aircraft instrument technicians (see 2244 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)

- Electrical and electronics engineering technologists and technicians (see 2241 Electrical and electronics engineering technologists and technicians)
- Industrial mechanics (see 7311 Construction millwrights and industrial mechanics)
- Measurement technician - oil and gas inspection (see 2262 Engineering inspectors and regulatory officers)

*Main duties*

Industrial instrument technicians and mechanics perform some or all of the following duties:

- Consult manufacturer's manuals, circuit diagrams and blueprints to determine tests and maintenance procedures for instruments used for measuring and controlling flow, level, pressure, temperature, chemical composition and other variables in manufacturing and processing
- Inspect and test operation of instruments and systems to diagnose faults using pneumatic, electrical and electronic testing devices and precision measuring instruments
- Repair and adjust system components, such as sensors, transmitters and programmable logic controllers, or remove and replace defective parts
- Calibrate components and instruments according to manufacturers' specifications
- Perform scheduled preventive maintenance work and complete test and maintenance reports
- Install control and measurement instruments on existing and new plant equipment and processes
- Consult with and advise process operators.

*Employment requirements*

- Completion of a four- or five-year apprenticeship program in industrial instrument repair or Completion of a two-year college program in industrial instrumentation technology and several years of work experience are usually required for trade certification.
- Completion of a two- to three-year college program in electronics or Completion of a four-year apprenticeship program in electronic servicing and repair or Completion of high school or college courses in electronics and on-the-job training is required.
- Completion of secondary school is usually required.
- Trade certification for electronics technicians (consumer products) is available, but voluntary, in New Brunswick, Ontario, British Columbia and the Yukon.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 2244 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors

This unit group includes mechanics and technicians who install, adjust, repair and overhaul aircraft instrument, electrical or avionics systems on aircraft. This unit group also includes avionics inspectors who inspect instrument, electrical and avionics systems following assembly, modification, repair or overhaul. Workers in this unit group are employed by aircraft manufacturing, maintenance, repair and overhaul establishments and by airlines and other aircraft operators.

*Illustrative example(s)*

- aircraft electrical technician
- aircraft electrician
- aircraft instrument inspector
- aircraft instrument mechanic
- aircraft instrument technician
- aircraft maintenance engineer (AME) - avionics
- avionics inspector
- avionics maintenance technician
- avionics technician
- instrument overhaul and repair mechanic - avionics

### *Exclusion(s)*

- Aircraft assemblers and aircraft assembly inspectors (see 9521 Aircraft assemblers and aircraft assembly inspectors)
- Aircraft mechanics and maintenance engineers who maintain and inspect aircraft structures, mechanical, hydraulic or propulsion systems (see 7315 Aircraft mechanics and aircraft inspectors)
- Airworthiness inspectors (see 2262 Engineering inspectors and regulatory officers)
- Electrical mechanics (see 7333 Electrical mechanics)
- Industrial instrument technicians and mechanics (see 2243 Industrial instrument technicians and mechanics)

### *Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Aircraft instrument mechanics and technicians repair and overhaul, install, calibrate and test aircraft instruments.
- Aircraft electrical mechanics and technicians repair and overhaul, modify, install and test aircraft electrical systems and equipment.
- Avionics mechanics and technicians troubleshoot, repair and overhaul, test, modify, install and inspect aircraft electronic systems and components including communications, navigation, and autoflight equipment.
- Avionics inspectors inspect and test aircraft instrument, electrical and avionics systems and ensure that the installation, maintenance, repair and overhaul of these systems meet Transport Canada and company standards of performance and safety.
- Aircraft mechanics and technicians who work in repair and overhaul shops service and test electrical, electronic and instrument components.
- Avionics mechanics and technicians who work in maintenance hangars troubleshoot, repair, install and inspect aircraft systems and components.

### *Employment requirements*

- Aircraft electrical mechanics and technicians require completion of a college program as an electrical or electronic technician.
- Aircraft instrument and avionics mechanics and technicians require completion of a two- to three-year college program in avionics or electronics.
- Avionics inspectors require completion of a two- to three-year college program in avionics or electronics and Three to five years of experience as an avionics mechanic or technician.
- Avionics inspectors, mechanics and technicians who sign maintenance releases and certify airworthiness require an Aircraft Maintenance Engineer's (AME) licence (category E - avionics) issued by Transport Canada.
- Four years of on-the-job or company apprenticeship training is required for all mechanics and technicians in this unit group.
- Instrumentation and control technician trade certification is available, but voluntary, in all provinces and territories, except in Quebec.
- Red Seal endorsement is also available to qualified instrumentation and control technicians upon successful completion of the interprovincial Red Seal examination.

### *Additional information*

- An AME licence can be obtained by fulfilling the education and training requirements as stated above and passing Transport Canada AME examinations.
- Avionics inspectors, maintenance technicians and mechanics may acquire further endorsements to their AME licence allowing them to inspect and certify a broader range of aircraft and avionics systems.
- Progression to supervisory positions within specific areas of expertise is possible with experience.

## 225 Technical occupations in architecture, drafting, surveying, geomatics and meteorology

This minor group includes technologists and technicians working in architectural technology, civil design engineering, construction, manufacturing design, industrial design, land surveying, geomatics, and meteorology. They are employed by governments; architectural, design, engineering, construction, consulting, media, computer software, forestry, natural resources, utilities and transportation companies; surveying establishments; and in manufacturing industries; or they may be self-employed.

### 2251 Architectural technologists and technicians

Architectural technologists and technicians may work independently or provide technical assistance to professional architects and civil design engineers in conducting research, preparing drawings, architectural models, specifications and contracts and in supervising construction projects. Architectural technologists and technicians are employed by architectural and construction firms, and governments.

*Illustrative example(s)*
- architectural design technician
- architectural design technologist
- architectural technician
- architectural technologist

*Exclusion(s)*
- Architects (see 2151 Architects)
- Civil engineering technologists and technicians (see 2231 Civil engineering technologists and technicians)
- Construction estimators (see 2234 Construction estimators)
- Construction inspectors (see 2264 Construction inspectors)
- Construction managers (see 0711 Construction managers)
- Drafting technologists and technicians (see 2253 Drafting technologists and technicians)
- Land survey technologists and technicians (see 2254 Land survey technologists and technicians)

*Main duties*

Architectural technologists and technicians perform some or all of the following duties:
- Assist in the development of architectural designs
- Analyze building codes, by-laws, space requirements, site requirements and other technical documents and reports
- Prepare manual and CAD (computer-assisted design) drawings, specifications, cost estimates and listings of quantities of material from conceptual drawings and instructions
- Construct architectural and display models, and 3-D virtual models of architectural designs
- Prepare contract and bidding documents
- May supervise drafters, technicians and technologists on the architectural team
- May supervise construction projects and co-ordinate, monitor and inspect work done by others.

*Employment requirements*
- A period of supervised work experience, usually two years, is required before certification.
- Certification in architectural technology or in a related field through provincial associations of architectural or engineering/applied science technologists and technicians may be required by employers.
- Completion of a two- to three-year college program in architectural technology or a related subject is usually required.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."
- Industry certification is available from the Canadian Council for Aviation & Aerospace (CCAA) for some occupations in this unit group.

*Additional information*
- Progression to supervisory positions is possible with experience.

- There is mobility to other related occupations such as drafters, civil engineering technologists and technicians, construction estimators and construction inspectors.

## 2252 Industrial designers

Industrial designers conceptualize and produce designs for manufactured products. They are employed by manufacturing industries and private design firms or they may be self-employed.

*Illustrative example(s)*
- furniture designer
- industrial design consultant
- industrial designer
- industrial products designer
- product designer

*Exclusion(s)*
- Architectural technologists and technicians (see 2251 Architectural technologists and technicians)
- Civil engineering design technologists (see 2231 Civil engineering technologists and technicians)
- Electrical and electronics design technologists (see 2241 Electrical and electronics engineering technologists and technicians)
- Engineering design and drafting technicians and technologists (see 2253 Drafting technologists and technicians)
- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)
- Interior designers and interior decorators (see 5242 Interior designers and interior decorators)
- Mechanical engineering equipment designers (see 2232 Mechanical engineering technologists and technicians)
- Theatre, fashion, exhibit and other creative designers (see 5243 Theatre, fashion, exhibit and other creative designers)

*Main duties*

Industrial designers perform some or all of the following duties:
- Consult with client, engineers or production specialists to establish product requirements
- Analyze the intended use of product and user preferences
- Conduct research into cost, properties of production materials and methods of production
- Develop manual and computer-assisted design (CAD) concepts, sketches or models for approval
- Prepare manufacturing drawings, specifications and guidelines for production and construct prototype of design
- Consult with engineers and production staff during manufacturing stage.

*Employment requirements*
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."
- Membership in the provincial regulatory body is mandatory in British Columbia.

*Additional information*
- Mobility is possible to other design occupations.
- There is mobility between positions in this unit group.

## 2253 Drafting technologists and technicians

Drafting technologists and technicians prepare engineering designs, drawings and related technical information, in multidisciplinary engineering teams or in support of engineers, architects or industrial designers, or they may work independently. They are employed by consulting and construction companies, utility, resource and manufacturing companies, all levels of government and by a wide range of other establishments.

*Illustrative example(s)*

- architectural draftsperson
- computer-assisted design and drafting technologist
- computer-assisted drafting (CAD) technician
- design and drafting technologist
- drafting office supervisor
- drafting technician
- drafting technologist
- draftsperson
- electrical draftsperson
- electromechanical draftsperson
- electronic draftsperson
- engineering design and drafting technologist
- mechanical draftsperson
- steel detailer - drafting
- structural draftsperson
- structural steel drafter-detailer

*Exclusion(s)*

- Architectural design technologists (see 2251 Architectural technologists and technicians)
- Civil engineering design technologists (see 2231 Civil engineering technologists and technicians)
- Electrical and electronics engineering design technologists (see 2241 Electrical and electronics engineering technologists and technicians)
- Industrial designers (see 2252 Industrial designers)
- Mechanical engineering design technologists (see 2232 Mechanical engineering technologists and technicians)

*Main duties*

Drafting technologists and technicians perform some or all of the following duties:

- Drafting technologists
- Develop and prepare engineering designs and drawings from preliminary concepts, sketches, engineering calculations, specification sheets and other data
- Operate computer-assisted design (CAD) and drafting workstations
- Develop and prepare design sketches
- Complete documentation packages and produce drawing sets
- Check and verify design drawings to conform to specifications and design data
- Write technical reports
- Prepare contracts and tender documents
- Prepare construction specifications, costs and material estimates
- Supervise and train other technologists, technicians and drafters.
- Drafting technicians
- Develop and prepare engineering drawings, plans, diagrams or layouts from sketches
- Operate computer-assisted drafting equipment or a conventional drafting station.

*Employment requirements*

- A university degree in industrial design, architecture, engineering or A college diploma in industrial design is required.
- Completion of a one- to two-year college program in drafting or Completion of a three- to four-year apprenticeship program or Four to five years of related experience plus completion of college or industry courses in drafting are usually required for drafting technicians.
- Completion of a two- to three-year college program in engineering design and drafting technology or in a related field is usually required for drafting and design technologists.
- Completion of secondary school is usually required.
- Creative ability, as demonstrated by a portfolio of work, is required.
- Trade certification for draftspersons is available, but voluntary in Ontario.

*Additional information*
- Mobility is possible to civil, mechanical, electrical or other engineering design technologies through educational or work specialization.
- Senior and supervisory drafting and design technology workers require experience.

## 2254 Land survey technologists and technicians

Land survey technologists and technicians conduct or participate in surveys to determine the exact locations and relative positions of natural features and other structures on the earth's surface, underground and underwater. They are employed by all levels of government, architectural and engineering firms, and by private sector surveying establishments.

*Illustrative example(s)*
- engineering survey technologist
- geodetic survey technologist
- geomatics technologist - land surveying
- land survey technician
- legal survey technician
- topographic survey technician
- transit operator - surveying

*Exclusion(s)*
- Drafting technologists and technicians (see 2253 Drafting technologists and technicians)
- Engineering technologists and technicians who apply geotechnical and topographical information to land use and urban planning (see 2231 Civil engineering technologists and technicians)
- Geological, geophysical, hydrographic and mine survey technologists (see 2212 Geological and mineral technologists and technicians)
- Land surveyors (see 2154 Land surveyors)
- Technical occupations in geomatics and meteorology (see 2255 Technical occupations in geomatics and meteorology)

*Main duties*

Land survey technologists and technicians perform some or all of the following duties:
- Land survey technologists
- Assist survey engineers or professional surveyors to develop methods and procedures for conducting field surveys
- Conduct field surveys and operate survey instruments and computer equipment to measure distance, angles, elevations and contours
- Record measurements and other information obtained during field survey activities
- Determine precise geographic locations using global positioning systems (GPS) equipment
- Analyze latitude, longitude and angles and compute trigonometric and other calculations to plot features, contours and areas to a specific scale
- Prepare detailed drawings, charts and plans and survey notes and reports
- Supervise and co-ordinate field survey activities.
- Land survey technicians
- Participate in field surveys and operate survey instruments and devices
- Keep records, measurements and other survey information in systematic order
- Assist in the calculation, analysis and computation of measurements obtained during field surveys
- Assist in the preparation of detailed drawings, charts and plans.
- Land survey technologists and technicians may specialize in one of the following types of surveys: geodetic survey, topographic survey, legal (cadastral) survey or engineering survey.

*Employment requirements*
- A period of supervised work experience, usually two years, is required before certification.
- Certification in engineering design and drafting technology or in a related field through provincial associations of engineering/applied science technologists and technicians may be required by employers.

- Completion of a one- to two-year college program in geomatics or land survey technology is usually required for land survey technicians.
- Completion of a two- to three-year college program in geomatics or land survey technology is usually required for land survey technologists.
- Completion of secondary school is usually required.

*Additional information*

- Geomatics is an interdisciplinary field encompassing the collection, analysis and presentation of geographically referenced data.
- Mobility is possible between the various occupations in this unit group.
- Progression to land surveyor position is possible with completion of professional surveyor examinations and certification.
- Progression to supervisory positions is possible with experience.

## 2255 Technical occupations in geomatics and meteorology

Technical occupations in geomatics include aerial survey, remote sensing, geographic information systems, cartographic and photogrammetric technologists and technicians, who gather, analyze, interpret and use geospatial information for applications in natural resources, geology, environmental research and land use planning. Meteorological technologists and technicians observe weather and atmospheric conditions, record, interpret, transmit and report on meteorological data, and provide weather information to the agricultural, natural resources and transportation industries and the public. Geomatics technologists and technicians are employed by all levels of government, utilities, mapping, computer software, forestry, architectural, engineering and consulting firms and other related establishments. Meteorological technologists and technicians are employed by all levels of government, the media, natural resources, utilities and transportation companies and consulting firms.

*Illustrative example(s)*

- aerial survey technician
- aerological technician
- avalanche controller
- cartographer
- climate data processor
- climate service technician
- geographic information systems (GIS) technician
- ice observer
- map editor
- mapping technician
- meteorological inspector
- meteorological technician
- photogrammetric technologist
- photogrammetrist
- remote sensing (RS) technician
- softcopy photogrammetrist
- surface weather observer
- weather station officer-in-charge
- weather station operations technician

*Exclusion(s)*

- Airborne geophysical equipment operators (see 2212 Geological and mineral technologists and technicians)
- Drafting technologists and technicians (see 2253 Drafting technologists and technicians)
- Engineering technologists and technicians who apply geotechnical and topographical information to land use and urban planning (see 2231 Civil engineering technologists and technicians)
- Geomatics engineers and surveying engineers (see 2131 Civil engineers)
- Land survey technologists and technicians (see 2254 Land survey technologists and technicians)
- Land surveyors (see 2154 Land surveyors)
- Meteorologists and climatologists (see 2114 Meteorologists and climatologists)

*Main duties*

Technical occupations in geomatics and meteorology perform some or all of the following duties:

- Aerial survey and remote sensing technologists and technicians
- Operate analog or digital airborne remote sensing equipment such as survey film or digital cameras, laser or radar sensors and scanners to prepare images, data and graphic reports, maps and charts from airborne or satellite data
- Develop specialized analog and computer software specific routines to customize and integrate image analysis
- Inspect quality of recorded images, verify the integrity and accuracy of data contained in remote sensing image analysis systems, and adjust equipment as required.
- Geographic information systems (GIS) technologists and technicians
- Operate specialized computer hardware and software and peripheral equipment to model, manage, analyze and display geospatial data
- Develop specialized computer software routines, Internet based GIS, database and business applications to customize geographic information
- Work with external organizations on data transfer and systems compatibility issues
- Perform data entry and editing activities and maintenance operations to systems following pre-determined calibration procedures
- Integrate external software such as spreadsheets and statistical packages with GIS software
- Train and provide technical support for GIS users.
- Cartographic technologists and technicians
- Plan map content, format and design and compile required data from aerial photographs, survey notes, records, reports and other maps
- Generate maps and related graphs and charts using digital mapping techniques, computer interactive graphics, computer assisted design and drafting (CAD) software, traditional drafting methods and computer or traditional scribing tools
- Inspect final compositions to ensure completeness and accuracy.
- Photogrammetric technologists and technicians
- Examine and interpret aerial photographs to prepare topographic maps, aerial-photograph mosaics and related charts
- Operate digitized stereoscopic plotting and computer graphics equipment to provide three-dimensional optical models of terrain, to trace maps, and to prepare charts and tables
- Monitor recording quality and adjust equipment as required and inspect quality of recorded images.
- Meteorological technologists and technicians
- Observe, record and transmit atmospheric and weather information including air pressure, temperature, humidity, precipitation and cloud, wind and ultraviolet conditions
- Observe, chart and report on ice conditions in navigable waters and snow conditions, and participate in programs to forecast and control avalanches in mountainous terrain
- Maintain climatological databases, analyze and interpret weather data and participate in the production of weather maps, charts and reports
- Install, inspect, monitor, calibrate and maintain meteorological equipment and instruments.

*Employment requirements*

- Certification by provincial associations of technicians and technologists may be required by some employers.
- Completion of secondary school is required.
- Geomatics technicians require completion of a one- to two-year college program in cartography, photogrammetry, aerial survey, remote sensing, geographic information system or geomatics.
- Geomatics technologists require completion of a two- to three-year college program in cartography, photogrammetry, aerial survey, remote sensing, geographic information system or geomatics.
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist."
- In Quebec, membership in the regulatory body for professional technologists is required to use the title "Professional Technologist".

*Additional information*

- Geomatics is an interdisciplinary field encompassing the collection, analysis and presentation of geographically referenced data.
- Mobility is possible between some occupations in this unit group.

## 226 Other technical inspectors and regulatory officers

This minor group includes testers, inspection technicians, inspectors and regulatory officers working in non-destructive testing, transportation inspection, health and safety inspection, and construction inspection. They are employed by quality control, maintenance and safety departments of manufacturing, processing, transportation, energy, and other companies; civil engineering consulting, architectural and construction companies; throughout the private and public sectors ; and by private industrial inspection establishments; or they may be self-employed.

### 2261 Non-destructive testers and inspection technicians

Non-destructive testers and inspection technicians operate radiographic, ultrasonic, liquid penetrant, magnetic particle, eddy current and similar testing equipment to detect discontinuities in objects of various compositions and materials. They are employed by quality control, maintenance and safety departments of manufacturing, processing, transportation, energy and other companies and by private industrial inspection establishments.

*Illustrative example(s)*

- acoustic emission technician
- aircraft non-destructive inspection technician
- eddy current technician
- industrial radiographer
- infrared thermographer
- liquid penetrant testing technician
- NDT (non-destructive testing) maintenance technician
- non-destructive inspector
- pressure vessel tester
- radiographic technician - non-destructive testing
- ultrasonic testing technician
- visual inspection technician - welding
- weld tester

*Exclusion(s)*

- Engineering inspectors and regulatory officers (see 2262 Engineering inspectors and regulatory officers)
- Radiographic or ultrasonic equipment operating occupations in medical laboratories or hospitals (see 321 Medical technologists and technicians (except dental health))

*Main duties*

Non-destructive testers and inspection technicians perform some or all of the following duties:

- Set up and calibrate non-destructive testing equipment
- Conduct tests to ensure quality or detect discontinuities (defects) using ultrasonic, radiographic, liquid penetrant, magnetic particle, eddy current and other non-destructive testing methods
- Establish techniques for proper examination of objects under inspection, ensuring strict adherence to safety regulations
- Interpret radiographs, cathode ray tube (CRT) or digital readouts, conductivity meters and visual indicators
- Apply testing criteria in accordance with applicable specifications or standards and evaluate results
- Organize and report test results
- May perform specialized inspections using acoustic emission, vibration analysis, infrared thermography and laser shearography testing methods
- May instruct and supervise trainees.

*Employment requirements*

- Additional classroom and on-the-job training is required for certification in non-destructive testing.

- Completion of secondary school is required.
- Completion of two years of an approved post-secondary science or engineering program may be required.
- Further specialized training is available for meteorological technicians, and may be required by some employers.
- Industrial radiographers using a radioactive isotope must pass an examination to be recognized as a certified exposure device operator by the Canadian Nuclear Safety Commission.
- Meteorological technicians require completion of a one-year meteorological technician program provided by the Meteorological Service of Canada.
- Non-destructive testing certification by Natural Resources Canada is available in three levels and is usually required by employers.

## 2262 Engineering inspectors and regulatory officers

Engineering inspectors and regulatory officers inspect transportation vehicles such as aircraft, watercraft, automobiles and trucks and weighing and measuring devices such as scales and meters as well as industrial instruments, processes and equipment for conformity to government and industry standards and regulations. They are employed by government agencies and in the private sector.

*Illustrative example(s)*

- air carrier maintenance inspector
- air transport inspector
- airworthiness inspector
- electricity and gas meter inspector
- elevator inspector
- engineering inspector
- engineering regulatory officer
- insurance loss prevention inspector
- marine damage surveyor
- motor vehicle defects investigator
- railway accident investigation officer
- weights and measures inspector

*Exclusion(s)*

- Construction inspectors (see 2264 Construction inspectors)
- Inspectors in public and environmental health and occupational health and safety (see 2263 Inspectors in public and environmental health and occupational health and safety)
- Non-destructive testers and inspection technicians (see 2261 Non-destructive testers and inspection technicians)
- Regulatory and compliance officers (see 1122 Professional occupations in business management consulting)

*Main duties*

Engineering inspectors and regulatory officers in this unit group perform some or all of the following duties:

- Motor vehicles defects investigators
- Conduct motor vehicle and motor vehicle component defect investigations, examinations, tests and defect-related accident investigations
- Provide expert advice and testimony on specific motor vehicle performance problems or defects
- Recommend improvements in vehicle inspection and licensing procedures and vehicle safety standards.
- Railway accident investigation officers
- Collect and analyze data from train derailments, collisions, and other accidents to determine the causes
- Inspect and evaluate railway property, structures, rolling stock, signals, track structure and train handling characteristics to ensure compliance to operating standards.
- Airworthiness inspectors
- Conduct initial and regular inspections of establishments and individuals holding or applying for air carrier operating certificates and establishments engaged in aircraft maintenance, repair or modification
- Inspect aircraft, advise of any deficiencies and detain aircraft suspected of being unairworthy or unsafe.

- Inspectors, weights and measures
- Conduct inspections and tests of a variety of mechanical and electronic weighing and measuring devices and systems
- Prepare draft investigative reports of findings
- Recommend corrective or enforcement action.
- Oil and gas drilling rig inspectors
- Conduct onshore and offshore inspections of drilling and well servicing equipment and processes to ensure compliance with regulations and policies and to recommend improvements and corrective action.

*Employment requirements*

- Boiler and pressure vessel, process pipeline and above-ground storage tank inspector certification is available from the American Petroleum Institute.
- Welding inspector certification by the Canadian Welding Bureau is available in three levels and may be required by employers.

## 2263 Inspectors in public and environmental health and occupational health and safety

Inspectors in this unit group evaluate and monitor health and safety hazards and develop strategies to control risks. They inspect restaurants, industrial establishments, municipal water systems, public facilities, institutions and other workplaces to ensure compliance with government regulations regarding sanitation, pollution control, the handling and storage of hazardous substances and workplace safety. They are employed throughout the public and private sectors.

*Inclusion(s)*

- safety supervisor - occupational health and safety

*Illustrative example(s)*

- environmental health officer
- hazardous waste inspector
- health and safety officer
- health standards inspector
- occupational health and safety officer
- pollution control inspector
- public health inspector
- public health inspectors supervisor
- restaurant inspector
- rodent control inspector
- water inspector

*Exclusion(s)*

- By-law enforcement and other regulatory officers, n.e.c. (see 4423 By-law enforcement and other regulatory officers, n.e.c.)
- Construction inspectors (see 2264 Construction inspectors)
- Engineering inspectors and regulatory officers (see 2262 Engineering inspectors and regulatory officers)
- Occupational hygienists and ergonomists (see 4161 Natural and applied science policy researchers, consultants and program officers)

*Main duties*

Inspectors in this unit group perform some or all of the following duties:

- Inspect the sanitary conditions of restaurants, hotels, schools, hospitals and other public facilities or institutions
- Conduct surveys and monitoring programs of the natural environment to identify sources of pollution
- Collect biological and chemical samples and specimens for analysis; measure physical, biological and chemical workplace hazards; and conduct safety and environmental audits
- Investigate health and safety related complaints, spills of hazardous chemicals, outbreaks of diseases or poisonings and workplace accidents

- Inspect workplaces to ensure that equipment, materials and production processes do not present a safety or health hazard to employees or to the general public
- Develop, implement and evaluate health and safety programs and strategies
- Initiate enforcement procedures to fine or to close an establishment contravening municipal, provincial or federal regulations
- Provide consultation and deliver training programs to employers, employees and the general public on issues of public health, environmental protection or workplace safety.

*Employment requirements*

- A bachelor's degree or college diploma in a discipline such as food science, environmental studies, chemistry or health and safety is usually required.
- Appropriate professional engineering or engineering technology certification and licences may be required.
- In some establishments, several years of related work experience and the completion of in-house training courses may substitute for formal education.
- University degree or college diploma in an appropriate engineering field or Trade qualifications and extensive related work experience are required.

## 2264 Construction inspectors

Construction inspectors inspect the construction and maintenance of new and existing buildings, bridges, highways and industrial construction to ensure that specifications and building codes are observed and monitor work site safety. They are employed by federal, provincial and municipal governments, construction companies, architectural and civil engineering consulting firms or they may be self-employed.

*Illustrative example(s)*

- bridge inspector
- building construction inspector
- construction inspector
- highway construction inspector
- home inspector
- housing construction inspector
- mine inspector, construction
- plumbing inspector
- pre-stressed concrete inspector
- safety officer - construction

*Exclusion(s)*

- By-law enforcement and other regulatory officers, n.e.c. (see 4423 By-law enforcement and other regulatory officers, n.e.c.)
- Construction estimators (see 2234 Construction estimators)
- Construction managers (see 0711 Construction managers)
- Engineering inspectors and regulatory officers (see 2262 Engineering inspectors and regulatory officers)
- Inspectors in public and environmental health and occupational health and safety (see 2263 Inspectors in public and environmental health and occupational health and safety)

*Main duties*

Construction inspectors perform some or all of the following duties:

- Examine plans, drawings, and site layouts for new buildings, building renovations and other proposed structures
- Inspect construction of buildings, bridges, dams, highways and other types of building and engineering construction for conformance to drawings, specifications, building codes or other applicable ordinances
- Inspect and test electrical or plumbing installations in buildings to ensure compliance with municipal, provincial and federal regulations
- Inspect steel framework, concrete forms, reinforcing steel mesh and rods, concrete or pre-stressed concrete to ensure quality standards and to verify conformance to specifications and building codes
- Inspect construction of sewer systems and pipelines

- Inspect construction sites to ensure that safe working conditions are maintained
- Inspect existing buildings to identify and report on structural defects, fire hazards and other threats to safety
- Inspect new or resale homes on behalf of clients and assess and provide reports on the physical condition of property
- Plan, design, develop, implement, and evaluate workplace activities to ensure that workers comply with company policies and government safety regulations.

*Employment requirements*

- A college diploma in construction, civil engineering or architectural technology plus several years of related work experience or Several years of experience as a qualified tradesperson in a construction trade, such as plumbing, carpentry or electrical trade are required.
- Completion of secondary school is required.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.
- Occupational health and safety officers may require certification with the Board of Canadian Registered Safety Professionals (BCRSP).
- Provincial certification in a skilled trade or as an engineering technologist is usually required.
- Public health inspectors employed outside Quebec require certification with the Canadian Institute of Public Health Inspectors.

*Additional information*

- Progression to construction management positions is possible with experience.

## 227 Transportation officers and controllers

This minor group includes air pilots, flight engineers, flight instructors, air traffic controllers, flight service specialists, flight dispatchers, water transport deck and engineer officers, railway traffic controllers, and marine traffic regulators working in air transportation, airport services, water transport, and railway transport. They are employed by airline, air freight, air services, and marine transportation companies; flying schools, and other public and private sector aircraft operators; port, harbour, canal, and lock authorities; and NAV Canada, the Canadian Armed Forces, the Canadian Coast Guard, and other federal government departments.

### 2271 Air pilots, flight engineers and flying instructors

Air pilots fly fixed wing aircraft and helicopters to provide air transportation and other services such as crop spraying and aerial surveying. Flight engineers assist air pilots with monitoring, troubleshooting and maintenance of aircraft systems and with pre- and post-flight inspections. Flying instructors teach flying techniques and procedures to student and licensed pilots. Air pilots, flight engineers and flight instructors are employed by airline and air freight companies, flying schools and by other public and private sector aircraft operators.

*Illustrative example(s)*

- air pilot
- captain - air transport
- check pilot
- chief flying instructor
- chief pilot
- co-pilot
- flight engineer
- flying instructor
- helicopter pilot
- pilot instructor
- relief pilot
- second officer - air transport
- test pilot

*Exclusion(s)*

- Air traffic controllers and related occupations (see 2272 Air traffic controllers and related occupations)
- Ground school instructors (see 4021 College and other vocational instructors)

*Main duties*

Air pilots, flight engineers and flying instructors perform some or all of the following duties:

- Air pilots
- Conduct pre-flight inspection of aircraft and check passenger and cargo distribution to ensure that weight and balance specifications are met
- Co-ordinate flight activities with ground crews and air-traffic control, inform crew members of flight and test procedures and direct activities of aircraft crew during flights
- Contact control towers for takeoff clearances, arrival instructions and other information
- Conduct in-flight tests and monitor functioning of aircraft equipment and systems during flights, maintain communications with flight dispatchers and weather forecasters and respond to and report in-flight emergencies and malfunctions
- Prepare flight evaluation reports
- Train pilots to use new equipment, or prepare them for examinations to re-validate or upgrade existing licences
- May fly new or experimental planes to examine their flight performance and safety
- May participate in search and rescue operations, forest firefighting, aerial surveying, crop dusting and other services.
- Flight engineers
- Inspect aircraft prior to takeoff according to pre-flight checklist and verify passenger and cargo distribution to ensure that weight and balance specifications are met
- Assist air pilots in monitoring aircraft systems, equipment and functions during flight
- Make in-flight repairs, such as replacing fuses and adjusting instruments, and follow emergency procedures to compensate for equipment malfunction or failure
- Perform post-flight inspections, record equipment malfunctions and corrective actions taken during flight and report required repairs to ground maintenance personnel.
- Flying instructors
- Instruct student pilots in procedures and techniques of flying aircraft and in ground-school subjects such as navigation, radio procedures and flying regulations
- Train licensed pilots for additional certification.

*Employment requirements*

- A commercial pilot's licence or an air transport pilot's licence is required.
- A university degree or college diploma may be required.
- A university degree or college diploma may be required.
- Additional licences or endorsements to fly different types of aircraft are required.
- Certification as a Construction Safety Officer (CSO) by provincially chartered associations may be required in provinces having such associations.
- Completion of secondary school and graduation from a certified flying or aviation school are required.
- Completion of secondary school and graduation from a certified flying or aviation school are required.
- Flight engineers require a flight engineer licence issued by Transport Canada.
- Flight instructors
- Home inspectors require a licence to practice in Ontario, Alberta and British Columbia.
- Pilots and flight engineers
- Structured training is provided by employers.

*Additional information*

- Flight engineers may progress to co-pilot and pilot positions with required hours of flying experience and completion of licensing and endorsement requirements.

## 2272 Air traffic controllers and related occupations

Air traffic controllers direct air traffic within assigned airspace, and control moving aircraft and service vehicles at airports. Flight service specialists provide pilots with flight information essential to aviation safety. Flight dispatchers authorize airline flights over assigned routes. Air traffic controllers and flight service specialists are employed by NAV Canada and the Canadian Forces. Flight dispatchers are employed by airline and air services companies and by the Canadian Forces.

*Illustrative example(s)*

- air traffic controller (ATC)
- airport air traffic controller
- enroute air traffic controller
- flight dispatcher
- flight service specialist (FSS)
- instrument flight rules air traffic controller
- terminal air traffic controller
- visual flight rules air traffic controller

*Exclusion(s)*

- Railway traffic controllers and marine traffic regulators (see 2275 Railway traffic controllers and marine traffic regulators)

*Main duties*

Air traffic controllers and related occupations perform some or all of the following duties:

- Air traffic controllers
- Control flow of air traffic within assigned airspace using radar monitors, radio and other communication equipment and visual references
- Issue aircraft takeoff and landing instructions to pilots and relay meteorological, navigational and other information to pilots in flight
- Maintain radio and telephone contact with adjacent control towers, terminal control units and other area control centres, and co-ordinate movement of aircraft into adjoining areas
- Alert airport emergency services when aircraft are experiencing difficulties and report missing aircraft to search and rescue services
- Direct activities of all moving aircraft and service vehicles on or near airport runways.
- Flight service specialists
- Provide pre-flight information concerning current and forecast weather conditions, radio frequencies, terrain, airports and related data to assist pilots in preparation of flight plans
- Check flight plans for completeness and accuracy and forward flight plans to air traffic services facility
- Respond to radio calls from aircraft preparing for takeoff or landing and supply information such as weather conditions, wind speed and direction and presence of local air traffic
- Support air traffic control operations by relaying radio requests for flight clearances, arrival and departure information and position reports
- Alert airport emergency services of aircraft experiencing difficulties and initiate communication searches when aircraft become overdue
- Observe, record and report weather conditions at airports.
- Flight dispatchers
- Analyze environmental conditions and assess aircraft for load and fuel capacity and other factors to determine flight routes
- Brief flight crew before takeoff on weather conditions, status of navigational facilities and airports en route
- Co-sign flight authorization with aircraft captain
- Monitor progress of flight and communicate as required with aircraft during flight
- Delay or cancel flights if conditions warrant
- Prepare and maintain flight plans, flight logs and other reports.

*Employment requirements*

- A basic radio telephone operator's licence is required.

- A commercial pilot's or an air transport pilot's licence is required.
- Air traffic controllers and flight service specialists require completion of a NAV Canada training program which includes structured in-class and on-the-job training.
- Completion of secondary school is required.
- Transport Canada ratings and endorsements to provide instructions on different types of aircraft are required.

*Additional information*

- Air traffic controllers with experience and appropriate NAV Canada endorsements may move to units with higher volumes of air traffic.

## 2273 Deck officers, water transport

Deck officers, water transport, operate and command ships or self-propelled vessels to transport passengers and cargo on oceans and coastal and inland waters, and supervise and co-ordinate the activities of deck crews. This unit group also includes Canadian Coast Guard deck officers. They are employed by marine transportation companies and federal government departments.

*Illustrative example(s)*

- Coast Guard vessel first watchkeeping officer
- Coast Guard vessel navigation officer
- Coast Guard vessel watchkeeping officer
- deck officer - water transport
- ferryboat master
- master mariner
- ship pilot
- ship second mate
- ship third mate
- ship's captain
- ship's mate
- tugboat captain

*Exclusion(s)*

- Engineer officers, water transport (see 2274 Engineer officers, water transport)
- Fishing masters and officers (see 8261 Fishing masters and officers)
- Shore captains (see 0731 Managers in transportation)
- Water transport deck and engine room crew (see 7532 Water transport deck and engine room crew)

*Main duties*

Deck officers perform some or all of the following duties:

- Command and operate ships or other self-propelled vessels, such as barges or oil rigs, to transport passengers and cargo
- Command and operate coast guard vessels to provide ice-breaking and search and rescue services, and to maintain control over ships operating in Canadian waters
- Board vessels at berth or from pilot boats to advise ships' captains on the course to steer for safe passage into and out of ports, seaways or other waterways under pilotage authority
- Plan and execute safe navigational passage using navigational aids
- Determine geographical position using navigational instruments, maps and charts
- Guide vessels in rivers, canals, and other confined or hazardous waters and waterways
- Maintain vessels' navigational instruments and equipment
- Direct and oversee the loading and unloading of cargo
- Supervise and co-ordinate the activities of deck crews
- Record vessel progress, crew activities, weather and sea conditions in the ship's log.

*Employment requirements*

- Air traffic controllers require an air traffic controller's licence.

- Completion of deck officer cadet program from an approved nautical institute or One to three years of experience as a member of a deck crew is required.
- Completion of secondary school is required.
- Flight dispatchers may require experience in air traffic control or flight operations and may require a private pilot's licence.

*Additional information*
- Mobility between employers is possible for positions requiring the same level of certification.
- Progression to management positions in transportation is possible with experience.
- Transport Canada administers a deck officer certification program, consisting of several levels. Progression from one level of certification to the next requires additional experience, training and testing.

## 2274 Engineer officers, water transport

Engineer officers, water transport, operate and maintain main engines, machinery and auxiliary equipment aboard ships and other self-propelled vessels, and supervise and co-ordinate the activities of engine room crews. They are employed by marine transportation companies and federal government departments.

*Illustrative example(s)*
- chief engineer - water transport
- engineer officer - water transport
- fourth engineer - water transport
- marine engineer officer
- second engineer
- third engineer - water transport
- tugboat engineer

*Exclusion(s)*
- Deck officers, water transport (see 2273 Deck officers, water transport)
- Managers in transportation (see 0731 Managers in transportation)
- Marine and naval engineers (see 2148 Other professional engineers, n.e.c.)
- Marine mechanical engineers (see 2132 Mechanical engineers)
- Water transport deck and engine room crew (see 7532 Water transport deck and engine room crew)

*Main duties*

Engineer officers, water transport, perform some or all of the following duties:
- Operate main engines, machinery and all auxiliary equipment aboard ships, such as boilers, steering and deck machinery, motors, pumps, generators and condensers
- Stand engine room watch, monitoring and noting performance of engines, machinery and all auxiliary equipment
- Inspect and conduct maintenance and emergency repairs to engines, machinery and all auxiliary equipment
- Supervise and co-ordinate the activities of the engine room crew
- Maintain records and prepare reports on engine performance and failures.

*Employment requirements*
- A deck officer certificate of competency, issued by Transport Canada, is required.
- Completion of secondary school is required.
- For ship pilots, a ship pilot licence and a master certificate of competency are required.

*Additional information*
- Fourth Class Marine Engineer certificate is the entry level of a four-level certification program administered by Transport Canada. Progression from one level of certification to the next requires additional experience, training and testing.
- Mobility between employers is possible for positions requiring the same level of certification.
- Progression to management positions in transportation is possible with experience.

## 2275 Railway traffic controllers and marine traffic regulators

Railway traffic controllers co-ordinate passenger and freight train traffic on railways. They are employed by rail transport companies. Marine traffic regulators monitor and regulate coastal and inland marine traffic within assigned waterways. They are employed by port, harbour, canal and lock authorities and by the Canadian Coast Guard.

*Illustrative example(s)*

- chief rail traffic controller
- marine traffic regulator
- rail traffic controller
- train operator

*Exclusion(s)*

- Harbour masters (see 0714 Facility operation and maintenance managers)
- Subway traffic controllers (see 7305 Supervisors, motor transport and other ground transit operators)
- Supervisors, railway transport operations (see 7304 Supervisors, railway transport operations)

*Main duties*

Railway traffic controllers and marine traffic regulators perform some or all of the following duties:

- Railway traffic controllers
- Operate and monitor centralized traffic control systems to co-ordinate and follow railway traffic
- Chart train movements, calculate arrival and departure times and record rail traffic information
- Issue instructions to control the movement of passenger and freight train traffic and on-track mobile maintenance equipment
- Receive, record and relay train instructions to train crew by hand or radio telephone
- May supervise and train other railway traffic controllers.
- Marine traffic regulators
- Direct and monitor vessel movements using radar or closed circuit monitors, remote radio systems and other telecommunication equipment
- Obtain position, course, speed and estimated arrival time of vessels and monitor vessel progress through traffic zone
- Issue clearance instructions to vessels, advise vessels of traffic volumes and weather conditions, and relay information to next marine traffic control sector
- Report accidents, distress signals, navigational hazards and other emergencies to authorities
- Maintain radio and telephone contact with adjacent marine control sectors and with vessels within area of jurisdiction
- Maintain log of vessel movements, size and structure.

*Employment requirements*

- A marine engineer officer certificate of competency, issued by Transport Canada, is required.
- Completion of a three-year cadet program in marine engineering from an approved marine training institute or Approximately three years of experience as an engine room crew member and six months of formal training at an approved marine training institute or Approximately three years of experience as an engine mechanic and six months of experience as an engine room crew member are required for certification as a fourth class marine engineer.
- Railway traffic controllers usually require completion of secondary school and several years of experience in the railway industry.
- Up to 35 weeks of a combination of classroom and on-the-job training is provided for railway traffic controllers.

*Additional information*

- There is little mobility between traffic controlling occupations in the railway and marine sectors.
- With experience, railway traffic controllers may progress to supervisory positions in rail transport operations.

## 228 Technical occupations in computer and information systems

This minor group includes technicians and technologists working in computer networking, user support, and information systems testing. They are employed by computer hardware manufacturers; retailers; software developers; independent technical support companies; and in call centres and information technology units throughout the private and public sectors; or they may be self-employed.

### 2281 Computer network technicians

Computer network technicians establish, operate, maintain and co-ordinate the use of local and wide area networks (LANs and WANs), mainframe networks, hardware, software and related computer equipment. They set up and maintain Internet and intranet Web sites and Web-server hardware and software, and monitor and optimize network connectivity and performance. They are employed in information technology units throughout the private and public sectors. Supervisors of computer network technicians are included in this unit group.

*Illustrative example(s)*

- computer network technician
- computer network technicians' supervisor
- data centre operator
- Internet Web site technician
- LAN (local area network) administrator
- LAN (local area network) technician
- network administrator
- network support technician
- system administrator
- Web technician

*Exclusion(s)*

- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Information systems testing technicians (see 2283 Information systems testing technicians)
- User support technicians (see 2282 User support technicians)
- Web designers and developers (see 2175 Web designers and developers)

*Main duties*

Computer network technicians perform some or all of the following duties:

- Maintain, troubleshoot, repair and administer local area networks (LANs), wide area networks (WANs), mainframe networks, computer workstations, connections to the Internet and peripheral equipment
- Evaluate and install computer hardware, networking software, operating system software and software applications
- Operate master consoles to monitor the performance of computer systems and networks and to co-ordinate access and use of computer networks
- Provide problem-solving services to network users
- Install, maintain, troubleshoot and upgrade Web-server hardware and software
- Implement network traffic and security monitoring software, and optimize server performance
- Perform routine network start up and close down and maintain control records
- Perform data backups and disaster recovery operations
- Conduct tests and perform security and quality controls
- Control and monitor e-mail use, Web navigation, and installed software
- Perform shell scripting or other basic scripting tasks
- May supervise other workers in this group.

*Employment requirements*

- Completion of a college or other program in computer science, network administration, Web technology or a related field is usually required.
- Marine traffic regulators require completion of secondary school and several months of formal traffic regulator training.
- Railway traffic controllers require a Canadian Rail Operating Rules certificate.

*Additional information*

- Progression to computer programming, interactive media development, Web development or systems analysis is possible with experience.

## 2282 User support technicians

Technicians in this unit group provide first-line technical support to computer users experiencing difficulties with computer hardware and with computer applications and communications software. They are employed by computer hardware manufacturers and retailers, software developers, in call centres and in information technology units throughout the public and private sectors. Technicians in this unit group are also employed by independent technical support companies or they may be self-employed.

*Illustrative example(s)*

- call centre agent - technical support
- client support representative - systems
- computer help desk representative - systems
- computer help desk supervisor
- hardware installation technician
- hardware technical support analyst
- help desk technician
- software installation technician
- software technical support analyst
- systems support representative
- technical support analyst - systems
- technical support supervisor
- user support technician

*Exclusion(s)*

- Computer network technicians (see 2281 Computer network technicians)
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)
- Information systems testing technicians (see 2283 Information systems testing technicians)

*Main duties*

User support technicians perform some or all of the following duties:

- Communicate electronically and in person with computer users experiencing difficulties to determine and document problems experienced
- Consult user guides, technical manuals and other documents to research and implement solutions
- Reproduce, diagnose and resolve technical problems encountered by users
- Provide advice and training to users in response to identified difficulties
- Provide business systems, network and Internet support to users in response to identified difficulties
- Collect, organize and maintain a problems and solutions log for use by other technical support analysts
- Participate in the redesign of applications and other software
- May supervise other technical support workers in this group.

*Employment requirements*

- Certification or training provided by software vendors may be required by some employers.

- Completion of a college program in computer science, computer programming or network administration is usually required.
- Registration with a regulatory body is required in Saskatchewan.

*Additional information*

- Progression to computer programming, interactive media development, Web development or systems analysis is possible with experience.

## 2283 Information systems testing technicians

Information systems testing technicians execute test plans to evaluate the performance of software applications and information and telecommunications systems. They are employed in information technology units throughout the private and public sectors.

*Illustrative example(s)*

- application tester
- application testing technician
- software test co-ordinator
- software tester
- software testing technician
- systems tester
- systems testing technician
- user acceptance tester

*Exclusion(s)*

- Computer engineers (except software engineers and designers) (see 2147 Computer engineers (except software engineers and designers))
- Computer network technicians (see 2281 Computer network technicians)
- Computer programmers and interactive media developers (see 2174 Computer programmers and interactive media developers)
- Information systems analysts and consultants (see 2171 Information systems analysts and consultants)
- Software engineers and designers (see 2173 Software engineers and designers)
- User support technicians (see 2282 User support technicians)
- Web designers and developers (see 2175 Web designers and developers)

*Main duties*

Information systems testing technicians perform some or all of the following duties:

- Develop and document software testing plans
- Install software and hardware and configure operating system software in preparation for testing
- Execute, analyze and document results of software application tests and information and telecommunication systems tests
- Develop and implement software and information system testing policies, procedures and scripts
- Identify, report, track and propose solutions to product defects.

*Employment requirements*

- Certification or training provided by software vendors may be required by some employers.
- College or other courses in computer programming or network administration are usually required.
- Completion of a college program in computer science, computer programming or network administration is usually required.

*Additional information*

- Progression to computer programming, interactive media development, Web development or systems analysis is possible with experience.

## 3 Health occupations

Occupations in this category are concerned with providing health care services directly to patients and occupations that provide technical support to medical staff. To progress from medical and dental technical occupations to professional occupations, completion of additional formal education is required. Progression to supervisory positions requires experience in the occupations supervised. Support occupations in health are usually supplied from short training programs specific to the support area.

## 30 Professional occupations in nursing

This major group comprises professional occupations in health involved in nursing. It includes nursing co-ordinators and supervisors, registered nurses, registered psychiatric nurses and graduate nurses.

## 301 Professional occupations in nursing

This minor group includes nursing co-ordinators and supervisors, registered nurses, registered psychiatric nurses, and graduate nurses. They are employed by hospitals, clinics, extended care facilities, rehabilitation centres, nursing homes, nursing and community agencies, doctors' offices, companies, and private homes; or they may be self-employed.

## 3011 Nursing co-ordinators and supervisors

Nursing co-ordinators and supervisors co-ordinate and supervise the activities of registered nurses, registered psychiatric nurses, licensed practical nurses and other nursing personnel in the provision of patient care. They are employed in health care institutions such as hospitals, clinics and nursing homes, and in nursing agencies.

*Illustrative example(s)*

- nursing care co-ordinator
- nursing services co-ordinator
- nursing supervisor
- patient care co-ordinator - nursing
- psychiatric nursing supervisor
- public health nursing supervisor

*Exclusion(s)*

- Directors of nursing and nursing unit administrators (see 0311 Managers in health care)

*Main duties*

Nursing co-ordinators and supervisors perform some or all of the following duties:

- Supervise registered nurses, licensed practical nurses and other nursing personnel
- Evaluate patients' needs and ensure that required nursing care is delivered
- Set up and co-ordinate nursing services in conjunction with other health services
- Ensure quality nursing care is provided and appropriate administrative procedures are followed
- Assist in the establishment of unit policies and procedures
- Administer nursing unit budget and ensure that supplies and equipment are available
- Assist in the selection, evaluation and professional development of nursing personnel
- Collaborate on research projects related to nursing and medical care and multidisciplinary services
- May provide direct patient care.

*Employment requirements*

- Certification or training provided by software vendors may be required by some employers.
- College or other courses in computer programming or network administration are usually required.
- Completion of a university, college or other approved registered nursing, or registered psychiatric nursing, program is required.
- Courses in management studies or a degree, diploma or certificate in management or administration may be required.

*Additional information*

- Progression to management positions, such as director of nursing, is possible with experience.

## 3012 Registered nurses and registered psychiatric nurses

This unit group includes registered nurses, registered psychiatric nurses and graduates of a nursing program who are awaiting registration (graduate nurses). They provide direct nursing care to patients, deliver health education programs and provide consultative services regarding issues relevant to the practice of nursing. They are employed in a variety of settings including hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, community agencies, companies, private homes and public and private organizations or they may be self-employed.

*Inclusion(s)*

- infection control officer - medical

*Illustrative example(s)*

- clinical nurse
- community health nurse
- critical care nurse
- emergency care nurse
- intensive care nurse
- nurse researcher
- nursing consultant
- occupational health nurse
- private duty nurse
- public health nurse
- registered nurse (R.N.)
- registered psychiatric nurse (R.P.N.)

*Exclusion(s)*

- Nurse practitioners (see 3124 Allied primary health practitioners)
- Nursing co-ordinators and supervisors (see 3011 Nursing co-ordinators and supervisors)
- Nursing service managers (see 0311 Managers in health care)
- Registered practical nurses (see 3233 Licensed practical nurses)

*Main duties*

General duty registered nurses perform some or all of the following duties:

- Assess patients to identify appropriate nursing interventions
- Collaborate with members of an interdisciplinary health team to plan, implement, co-ordinate and evaluate patient care in consultation with patients and their families
- Administer medications and treatments as prescribed by a physician or according to established policies and protocols
- Monitor, assess, address, document and report symptoms and changes in patients' conditions
- Operate or monitor medical apparatus or equipment
- Assist in surgery and other medical procedures
- May supervise licensed practical nurses and other nursing staff
- May develop and implement discharge planning process on admission of patients
- May teach and counsel patients and their families on health-related issues in collaboration with other health care providers.
- Registered nurses may specialize in areas such as surgery, obstetrics care, psychiatric care, critical care, pediatrics, geriatrics, community health, occupational health, emergency care, rehabilitation or oncology.
- Occupational health nurses develop and implement employee health education programs and provide registered nursing care in private businesses and industry.
- Community health nurses provide health education and registered nursing care in public health units and through home visits, manage complex home care cases, participate in community needs assessment and program development, conduct disease screening and deliver immunization programs.

- Psychiatric nurses provide nursing care, supportive counselling and life skills programming to patients in psychiatric hospitals, mental health clinics, long-term care facilities and community-based settings.
- Nursing consultants provide consultative services to institutes, associations and health care organizations regarding issues and concerns relevant to the nursing profession and nursing practice.
- Nursing researchers engaged in research activities related to nursing are self-employed or are employed by hospitals, public and private organizations and governments.
- Clinical nurses provide leadership, advice and counsel on the provision of research-based care for specific patient groups within the care of particular health care organizations.

*Employment requirements*
- A master's or doctoral degree in nursing is usually required for clinical nurse specialists, clinical nurses, nursing consultants and nursing researchers.
- Additional academic training or experience is required to specialize in a specific area of nursing.
- Clinical experience as a registered nurse, or as a registered psychiatric nurse, is required.
- Completion of a university, college or other approved registered nursing program is required.
- Registered nurses
- Registered psychiatric nurses
- Registration with a regulatory body is required for registered nurses in all provinces and territories and for registered psychiatric nurses in Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon.
- Registration with a regulatory body is required in all provinces and territories.

*Additional information*
- Nurses trained exclusively as registered psychiatric nurses (RPN) are regulated in Manitoba, Saskatchewan, Alberta and British Columbia. In all other provinces and territories, registered nurses (RN) may work as psychiatric nurses without separate registr
- Registered nurses and registered psychiatric nurses may progress to supervisory and managerial positions with experience.

## 31 Professional occupations in health (except nursing)

This major group comprises professional occupations in health, except those involved in nursing. It includes physicians, dentists, veterinarians, pharmacists, dietitians and nutritionists; and other diagnosing, treating, therapy and assessment professionals.

## 311 Physicians, dentists and veterinarians

This minor group includes physicians, dentists and veterinarians. They work in private practice; and are employed by hospitals, clinics, and public health facilities; animal clinics, and farms; laboratories, universities, and government; and in industry.

## 3111 Specialist physicians

This unit group includes specialist physicians in clinical medicine, in laboratory medicine and in surgery. Specialists in clinical medicine diagnose and treat diseases and physiological or psychiatric disorders and act as consultants to other physicians. Specialists in laboratory medicine study the nature, cause and development of diseases in humans. Specialists in surgery perform and supervise surgical procedures. Specialists in clinical medicine usually work in private practice or in a hospital while those in laboratory medicine and in surgery usually work in hospitals. Residents in training to become specialist physicians are included in this unit group.

*Illustrative example(s)*
- anatomical pathologist
- anesthetist
- cardiac surgeon
- cardiologist
- clinical immunologist-allergist
- dermatologist

- diagnostic radiologist
- emergency physician
- endocrinologist
- gastroenterologist
- general pathologist
- general surgeon
- geriatrician
- hematologist
- hematopathologist
- medical biochemist - physician
- medical microbiologist
- nephrologist
- neurologist
- neuropathologist
- neurosurgeon
- obstetrician-gynecologist
- oncologist
- ophthalmologist
- orthopedic surgeon
- orthopedist
- otorhinolaryngologist
- pediatric surgeon
- pediatrician
- physiatrist
- plastic surgeon
- pneumologist
- psychiatrist
- radiation oncologist
- respirologist
- rheumatologist
- thoracic surgeon
- urologist
- vascular surgeon

*Exclusion(s)*

- Allied primary health practitioners (see 3124 Allied primary health practitioners)
- Chiropractors (see 3122 Chiropractors)
- Dental surgeons (see 3113 Dentists)
- General practitioners and family physicians (see 3112 General practitioners and family physicians)
- Immunologists (see 2121 Biologists and related scientists)
- Managers in health care (see 0311 Managers in health care)
- Other professional occupations in health diagnosing and treating (see 3125 Other professional occupations in health diagnosing and treating)

*Main duties*

Specialist physicians perform some or all of the following duties:

- Specialists in clinical medicine
- Diagnose and treat diseases and physiological or psychiatric disorders
- Order laboratory tests, X-rays and other diagnostic procedures
- Prescribe medication and treatment and refer patients for surgery
- Act as consultants to other physicians
- May conduct medical research.
- Specialists in laboratory medicine
- Study the nature, cause and development of diseases in humans and the structural and functional changes caused by diseases
- Conduct microscopic and chemical analyses of laboratory samples and specimens

- Supervise laboratory activities
- Act as consultants to other physicians.
- Specialists in surgery
- Assess patients' diseases or disorders to determine appropriate surgical procedures
- Perform and supervise surgical procedures to correct physical abnormalities and deficiencies and repair injuries
- Act as consultants to other physicians.

*Employment requirements*

- A bachelor's degree or In Quebec, completion of a college program and one year of pre-medicine university studies is usually required.
- Completion of a university or college registered psychiatric nursing program is required.
- Completion of the certifying examinations of the Royal College of Physicians and Surgeons of Canada and Licensing by the provincial or territorial licensing authority are required.
- Four to five years of specialty residency training are required.
- Four to five years of specialty residency training are required.
- Graduation from an approved medical school and specific specialty training are required.
- Registration with a regulatory body is required in Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon.
- Specialist physicians
- Specialists in clinical medicine
- Specialists in laboratory medicine
- Specialists in surgery
- Two years of subspecialty training may also be required.

*Additional information*

- Progression to management positions, such as director of laboratory medicine or chief of surgery, is possible with experience.

## 3112 General practitioners and family physicians

General practitioners and family physicians diagnose and treat the diseases, physiological disorders and injuries of patients. They provide primary contact and continuous care toward the management of patients' health. They usually work in private practice, including group or team practices, hospitals and clinics. Residents in training to be general practitioners or family physicians are included in this unit group.

*Inclusion(s)*

- community preventive medicine physician
- medical missionary

*Illustrative example(s)*

- family physician
- general practice resident
- general practitioner (GP)
- medical doctor

*Exclusion(s)*

- Allied primary health practitioners (see 3124 Allied primary health practitioners)
- Chiropractors (see 3122 Chiropractors)
- Managers in health care (see 0311 Managers in health care)
- Other professional occupations in health diagnosing and treating (see 3125 Other professional occupations in health diagnosing and treating)
- Specialist physicians (see 3111 Specialist physicians)

*Main duties*

General practitioners and family physicians perform some or all of the following duties:

- Examine patients and take their histories, order laboratory tests, X-rays and other diagnostic procedures and consult with other medical practitioners to evaluate patients' physical and mental health
- Prescribe and administer medications and treatments
- Perform and assist in routine surgery
- Provide emergency care
- Provide acute care management
- Vaccinate patients to prevent and treat diseases
- Deliver babies and provide pre-natal and post-natal care
- Advise patients and their families on health care including health promotion, disease, illness and accident prevention
- Provide counselling and support to patients and their families on a wide range of health and lifestyle issues
- Perform patient advocacy role
- Co-ordinate or manage primary patient care
- Provide continuous care to patients
- Supervise home care services
- Report births, deaths, and contagious and other diseases to governmental authorities.

*Employment requirements*

- A bachelor's degree or In Quebec, completion of a college program and one year of pre-medicine university studies is usually required.
- Five to six years of specialty residency training are required.
- Two years of subspecialty training may also be required.

*Additional information*

- General practitioners and family physicians may become specialist physicians with additional training.

## 3113 Dentists

Dentists diagnose, treat, prevent and control disorders of the teeth and mouth. They work in private practice or may be employed in hospitals, clinics, public health facilities or universities.

*Illustrative example(s)*

- dentist
- endodontist
- oral and maxillofacial surgeon
- oral pathologist
- oral radiologist
- orthodontist
- pediatric dentist
- periodontist
- prosthodontist
- public health dentist

*Exclusion(s)*

- Dental assistants (see 3411 Dental assistants)
- Dental hygienists and dental therapists (see 3222 Dental hygienists and dental therapists)
- Dental technologists, technicians and laboratory assistants (see 3223 Dental technologists, technicians and laboratory assistants)
- Denturists (see 3221 Denturists)

*Main duties*

Dentists perform some or all of the following duties:

- Examine patients' teeth, gums and surrounding tissue to diagnose disease, injury and decay and plan appropriate treatment
- Restore, extract and replace diseased and decayed teeth
- Perform oral surgery, periodontal surgery and other treatments

- Clean teeth and instruct patients on oral hygiene
- Design bridgework, fit dentures and provide appliances to correct abnormal positioning of the teeth and jaws, or write fabrication instructions or prescriptions for use by denturists and dental technicians
- Supervise dental hygienists, dental assistants and other staff.
- Dentists may specialize in such areas as oral and maxillofacial surgery, orthodontics, pediatric dentistry, periodontics, endodontics, prosthodontics, oral pathology, oral radiology or public health dentistry.

*Employment requirements*

- Completion of the qualifying examinations of the Medical Council of Canada or the Collège des médecins du Québec and Licensing by the provincial or territorial licensing authority are required.
- Graduation from an approved medical school and Two to three years of family medicine residency training are required.
- Licensing by a provincial or territorial regulatory body is required.
- One to four years of pre-dentistry university studies or, in Quebec, completion of a college program in sciences and A university degree from a recognized dental program are required.

*Additional information*

- Certification by the National Dental Examining Board of Canada entitles dentists or graduates of approved dental programs to practise dentistry in any province in Canada provided requirements set out by the provincial and territorial licensing authorities

## 3114 Veterinarians

Veterinarians prevent, diagnose and treat diseases and disorders in animals and advise clients on the feeding, hygiene, housing and general care of animals. Veterinarians work in private practice or may be employed by animal clinics, farms, laboratories, government or industry.

*Illustrative example(s)*

- farm veterinarian
- small animal veterinary specialist
- veterinarian
- veterinary inspector
- veterinary pathologist
- veterinary physiologist
- veterinary surgeon
- zoo veterinarian

*Exclusion(s)*

- Animal health technologists and veterinary technicians (see 3213 Animal health technologists and veterinary technicians)
- Biologists and related scientists (see 2121 Biologists and related scientists)

*Main duties*

Veterinarians perform some or all of the following duties:

- Diagnose diseases or abnormal conditions in individual animals, herds and flocks through physical examinations or laboratory tests
- Treat sick or injured animals by prescribing medication, setting bones, dressing wounds or performing surgery
- Vaccinate animals to prevent and treat diseases
- Perform routine, emergency and post-mortem examinations
- Advise clients on feeding, housing, behaviour, breeding, hygiene and general care of animals
- Provide a range of veterinary services including obstetrics, dentistry and euthanasia
- May supervise animal health technologists and animal care workers
- May be responsible for overall operation of animal hospital, clinic or mobile service to farms
- May conduct veterinary research related to areas such as animal nutrition, health care products development and disease prevention and control

- May enforce government regulations in disease control and food production including animal or animal-based food inspection.

*Employment requirements*

- Dentists in general practice can move into a specialized practice through advanced training.
- Licensing for specializations is required.
- Two years of pre-veterinary university studies or completion of a college program in health science and A four to five year university degree in veterinary medicine and Completion of national certification examinations are required.

*Additional information*

- The duties of veterinarians performing research may be similar to those of some biologists.

## 312 Optometrists, chiropractors and other health diagnosing and treating professionals

This minor group includes such health diagnosing and treating professionals as optometrists, chiropractors, midwives, nurse practitioners, physician assistants, naturopaths, orthoptists, osteopaths, podiatrists, chiropodists, and in podiatric medicine. They work in private practice; and are employed by clinics, hospitals, community health centres, rehabilitation centres, and birthing centres.

### 3121 Optometrists

Optometrists examine eyes to assess and diagnose ocular diseases and disorders. They prescribe and fit eyeglasses and contact lenses and recommend treatments such as exercises to correct vision problems or ocular disorders. They work in private practice, clinics and community health centres.

*Illustrative example(s)*

- doctor of optometry (OD)
- optometrist

*Exclusion(s)*

- Ocularists (see 3219 Other medical technologists and technicians (except dental health))
- Ophthalmologists (see 3111 Specialist physicians)
- Opticians (see 3231 Opticians)
- Optometric technicians or Optometrist assistants (see 3414 Other assisting occupations in support of health services)
- Orthoptists (see 3125 Other professional occupations in health diagnosing and treating)

*Main duties*

Optometrists perform some or all of the following duties:

- Examine patients' eyes, conduct tests and use ophthalmoscopes, biomicroscopes and other specialized instruments to determine ocular health and visual efficiency
- Prescribe and provide treatment (excluding surgery) to maintain, improve and correct vision and manage other ocular diseases and disorders
- Prescribe, dispense and fit eyeglasses, contact lenses and other visual aids
- Educate, counsel and advise patients on contact lens use and care, ocular hygiene, surgical and non-surgical options, and preventive care and maintenance related to occupation and lifestyle
- Refer patients to ophthalmologists or other physicians and surgeons for treatment of ocular diseases or conditions such as cataracts, glaucoma and macular degeneration and systemic conditions such as diabetes and high blood pressure
- May prescribe from a limited list of medications.
- Optometrists may specialize in fitting visual aids for people who are partially blind, fitting contact lenses or correcting special vision problems.

*Employment requirements*

- A provincial licence to practice is required.

- Entry into research positions may require post-graduate study.

## 3122 Chiropractors

Chiropractors diagnose, treat and prevent patients' neuromuscular-skeletal disorders of the spine, nervous system, pelvis and other body joints by adjusting the spinal column or through other corrective manipulation. Chiropractors are usually in private practice or in clinics with other health practitioners.

*Illustrative example(s)*
- chiropractic doctor
- chiropractor

*Exclusion(s)*
- Chiropractic aides (see 3414 Other assisting occupations in support of health services)

*Main duties*

Chiropractors perform some or all of the following duties:
- Take patients' case history, conduct examinations, observe patients, and perform X-rays and other tests to diagnose patient's condition
- Diagnose neuromuscular-skeletal disorders of the spinal column, pelvis, extremities and associated tissues
- Treat health disorders in a natural manner through adjustments or articular manipulations and complementary treatments such as electrotherapy, acupuncture, heat therapy and massage with special attention given to the spine
- Advise patients on alternate treatment modalities such as corrective exercises, posture, lifestyle and nutrition that have positive effects on the spine, joints, muscles and nervous system.
- Refer patients for medical care when appropriate.

*Employment requirements*
- Licensing by the provincial or territorial regulatory governing body is required.
- Three years of university undergraduate studies in sciences and A four- to five-year university program in optometry are required.

## 3124 Allied primary health practitioners

This unit group includes nurse practitioners, physician assistants and midwives who provide primary health care and treatment in conjunction with physicians and in collaboration with other health professionals. Nurse practitioners and physician assistants provide a range of health services to patients delivering preventive and continuous care toward the management of patients' health. Midwives provide full-course care to women and their babies during the pre- and post-natal period. Nurse practitioners are employed in community health centres, hospitals, clinics and rehabilitation centres. Physician assistants usually work in private practice, including group or team practices, hospitals and clinics. Midwives are employed in hospitals, clinics, birthing centres or in private practice.

*Illustrative example(s)*
- anesthesia assistant
- midwife
- nurse practitioner
- nurse practitioner - extended class
- physician assistant

*Exclusion(s)*
- General practitioners and family physicians (see 3112 General practitioners and family physicians)
- Managers in health care (see 0311 Managers in health care)
- Other professional occupations in health diagnosing and treating (see 3125 Other professional occupations in health diagnosing and treating)

- Practitioners of natural healing (see 3232 Practitioners of natural healing)
- Registered nurses and registered psychiatric nurses (see 3012 Registered nurses and registered psychiatric nurses)
- Specialist physicians (see 3111 Specialist physicians)

*Main duties*

Nurse practitioners perform some or all of the following duties:

- Examine patients and take their medical histories and consult with physicians and other medical practitioners to evaluate patients' physical and mental health
- Order laboratory tests, X-rays and other diagnostic procedures
- Inoculate and vaccinate patients
- Advise patients and their families on health care including health promotion, disease, illness and accident prevention
- Collaborate with members of an interdisciplinary health team such as family physicians, therapists and nutritionists to plan, implement, co-ordinate and evaluate patient care in consultation with patients and their families
- May prescribe from a limited list of medications.

Physician assistants perform some or all of the following duties:

- Conduct patient interviews, physical assessments and take medical histories
- Perform or order diagnostic tests and interpret results
- In consultation with a supervising physician, formulate and implement treatment plans and monitor patients' progress
- Perform and assist in minor surgery
- Provide health maintenance education
- May participate in research activities
- May prescribe from a limited list of medications.

Midwives perform some or all of the following duties:

- Provide primary, full-course, care to women and their babies during pregnancy, such as physical examinations, screening and diagnostic tests to monitor the health of mother and baby and make referrals to medical specialists as required
- Manage labour and spontaneous normal deliveries
- Care for, assess and monitor the health of newborns and refer infants to appropriate medical services as required
- Provide advice and guidance regarding care for newborns and young infants.

*Employment requirements*

- A minimum of two years of university undergraduate studies in sciences and Completion of a four- or five-year program at an institution accredited by the Accreditation Commission of the Council on Chiropractic Education and Completion of the examinations of the Canadian Chiropractic Examining Board and of the provincial licensing body are required.
- Licensing by a regulatory body is required in all provinces and in the Yukon.
- Nurse practitioners usually require a master's degree in nursing; or completion of a nursing program with additional advanced or extended primary health care nursing education; and several years of practice as a registered nurse.
- Physician assistants require completion of a university degree in a physician assistant program.
- Physician assistants require registration with a regulatory body in Manitoba and New Brunswick.
- Registration with a regulatory body is required for nurse practitioners in all provinces and territories.

*Additional information*

- There is no mobility between these occupations without further training.

## 3125 Other professional occupations in health diagnosing and treating

This unit group includes health professionals who diagnose and treat the diseases and injuries of patients and who are not elsewhere classified. This includes doctors of podiatric medicine, chiropodists and podiatrists, naturopaths, orthoptists and doctors of osteopathic medicine. They work in private practices, clinics and hospitals.

*Illustrative example(s)*

- chiropodist
- doctor of osteopathic medicine
- doctor of podiatric medicine (D.P.M.)
- foot specialist
- naturopath
- naturopathic doctor (ND)
- orthoptist
- osteopathic physician
- podiatrist

*Exclusion(s)*

- Chiropractors (see 3122 Chiropractors)
- General practitioners and family physicians (see 3112 General practitioners and family physicians)
- Osteopathic manual therapists (see 3232 Practitioners of natural healing)
- Specialist physicians (see 3111 Specialist physicians)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Doctors of podiatric medicine
- Diagnose diseases, deformities and injuries of the human foot and communicate diagnoses to patients
- Treat patients using braces, casts, shields, orthotic devices, physical therapy, or prescribed medications
- May also perform surgery on the bones of the forefoot and the subcutaneous soft tissues of the foot.
- Chiropodists and diploma or first-degree trained podiatrists
- Diagnose diseases, deformities and injuries of the human foot
- Treat patients using braces, casts, shields, orthotic devices, physical therapy and subcutaneous soft-tissue foot surgery.
- Naturopaths
- Diagnose patients' diseases and disorders
- Employ natural methods of healing such as acupuncture and acupressure, spinal manipulation, reflexology, hydrotherapy, herbal medicines, biochemical therapy, clinical nutrition, homeopathy and counselling in their treatment.
- Orthoptists
- Work alongside ophthalmologists to diagnose and treat eye disorders by performing specialized eye tests to measure and assess defective binocular vision or abnormal eye movement in patients
- Prescribe treatment such as eye exercises or patching regimens.
- Doctors of osteopathic medicine
- Diagnose disorders and injuries of the musculo-skeletal, circulatory and nervous systems
- Treat patients with manipulative therapy, medications or surgery.

*Employment requirements*

- A bachelor's degree and completion of a two-year accredited training program in orthoptics are required.
- A bachelor's degree is required for admission to a doctor of osteopathic medicine program.
- A doctor of podiatric medicine (D.P.M.) degree is required to practise podiatry in Quebec, Ontario, Alberta and British Columbia.
- A four-year doctoral degree program in podiatric medicine available in the United States and in Quebec, normally following completion of a bachelor's degree program, is required.
- A licence is required in New Brunswick, Ontario, Alberta and British Columbia.
- A licence is required in Nova Scotia, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.
- A medical residency is required in Alberta and British Columbia.

- A three-year diploma program in chiropody (DCh) obtained in Canada or A first-degree program in podiatric medicine (D.Pod.M.) obtained abroad (United Kingdom) is usually required.
- A university degree in pre-medical science is required.
- Certification with the Canadian Orthoptic Council is available but is required only in Quebec.
- Chiropodists and podiatrists
- Completion of a university program in naturopathic medicine, obtained abroad or A four-year program in naturopathic medicine from a private institute is required.
- Continuing education is required for recertification with the Canadian Orthoptic Council.
- Doctors of osteopathic medicine
- Doctors of podiatric medicine (D.P.M.)
- Midwives require completion of an undergraduate university degree program in midwifery or its equivalent and a period of supervised practical training.
- Naturopaths
- Orthoptists
- Registration with a regulatory body is required for midwives in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, the Northwest Territories and Nunavut.

*Additional information*

- Chiropodist and podiatrist titles are used interchangeably in some provinces, although the title podiatrist is becoming more common. The use of the podiatrist job title does not necessarily refer to doctors of podiatric medicine (D.P.M.).
- Doctors of osteopathic medicine may obtain a licence as general practitioners.
- Orthoptists may also be trained as ophthalmic technicians or technologists.
- Orthoptists often work as part of a medical team which includes ophthalmologists, opticians and other ophthalmic medical personnel.

## 313 Pharmacists, dietitians and nutritionists

This minor group includes pharmacists, dietitians and nutritionists. They are employed by retail and hospital pharmacies, home health-care agencies, extended care facilities, and community health centres; pharmaceutical companies; educational institutions, sports organizations, and government departments and agencies; in the pharmaceutical, and food and beverage industries; or they may be self-employed.

### 3131 Pharmacists

Community pharmacists and hospital pharmacists compound and dispense prescribed pharmaceuticals and provide consultative services to both clients and health care providers. They are employed in retail pharmacies and health center pharmacies, or they may be self-employed. Industrial pharmacists participate in the research, development, promotion and manufacture of pharmaceutical products. They are employed in pharmaceutical companies and government departments and agencies.

*Illustrative example(s)*

- clinical pharmacist
- community pharmacist
- hospital pharmacist
- industrial pharmacist
- pharmacist
- retail pharmacist

*Exclusion(s)*

- Chemists (see 2112 Chemists)
- Chiefs of pharmacy and pharmacy directors (see 0311 Managers in health care)
- Pharmaceutical sales representatives (see 6221 Technical sales specialists - wholesale trade)
- Pharmacologists (see 2121 Biologists and related scientists)
- Pharmacy aides (see 3414 Other assisting occupations in support of health services)
- Pharmacy and drugstore managers (see 0621 Retail and wholesale trade managers)

- Pharmacy technicians (see 3219 Other medical technologists and technicians (except dental health))

*Main duties*

Pharmacists perform some or all of the following duties:

- Community pharmacists and hospital pharmacists
- Check prescriptions for proper dosage
- Compound prescribed pharmaceutical products by calculating, measuring and mixing the quantities of drugs and other ingredients required and filling appropriate containers with correct quantity
- Dispense prescribed pharmaceuticals to customers or to other health care professionals and advise them on indications, contra-indications, adverse effects, drug interactions and dosage
- Maintain medication profiles of customers including registry of poisons and narcotic and controlled drugs
- Ensure proper preparation, packaging, distribution and storage of vaccines, serums, biologicals and other drugs and pharmaceuticals
- Order and maintain stock of pharmaceutical supplies
- Advise customers on selection and use of non-prescription medication
- Renew existing prescriptions in limited circumstances
- May adapt the formulation, regimen, duration or route of administration of medication
- May supervise and co-ordinate the activities of other pharmacists, pharmacy assistants, pharmacy technicians and other staff.
- Industrial pharmacists
- Participate in research for the development of new drugs
- Formulate new drug products developed by medical researchers
- Test new drug products for stability and to determine absorption and elimination patterns
- Co-ordinate clinical investigations of new drugs
- Control the quality of drug products during production to ensure that they meet standards of potency, purity, uniformity, stability and safety
- Develop information materials concerning the uses, properties and risks of particular drugs
- Evaluate labelling, packaging and advertising of drug products
- Promote pharmaceutical products to health professionals.

*Employment requirements*

- A four-year program in osteopathic medicine leading to a doctor of osteopathy degree and A one-year medical residency are required. These qualifications are obtained in the United States.
- Completion of the certifying examinations of the Royal College of Physicians and Surgeons of Canada and Licensing by the provincial or territorial licensing authority are required.

## 3132 Dietitians and nutritionists

Dietitians and nutritionists plan, implement and oversee nutrition and food service programs. They are employed in a variety of settings including hospitals, home health-care agencies and extended care facilities, community health centres, the food and beverage industry, educational institutions, and government and sports organizations, or they may work as private consultants.

*Illustrative example(s)*

- administrative dietitian
- clinical dietitian
- community nutritionist
- consultant dietitian
- dietitian
- dietitian-nutritionist
- nutrition specialist
- nutritionist
- public health dietitian
- public health nutritionist
- registered dietitian (RD)
- research dietitian

*Exclusion(s)*
- Dietary technicians (see 3219 Other medical technologists and technicians (except dental health))
- Directors of dietetics (see 0311 Managers in health care)
- Food service supervisors (see 6311 Food service supervisors)
- Home economists (see 4164 Social policy researchers, consultants and program officers)

*Main duties*

Dietitians and nutritionists perform some or all of the following duties:
- Develop, administer and supervise nutrition and food preparation and service programs in hospitals, nursing homes, schools, company cafeterias or similar settings
- Provide nutrition guidance, label interpretation and consultation services to health professionals, individuals, dietetic interns, community groups, government and the media
- Evaluate nutritional status of individuals and aid in the prevention and/or treatment of inadequate nutrition
- Plan, evaluate and conduct nutrition education programs and develop educational materials for various audiences
- Practice on an individual basis or as a member of an interdisciplinary team to determine nutritional needs of patients and to plan, implement and evaluate normal and therapeutic menus to maintain and enhance general health
- Analyze current scientific nutritional studies, conduct research and evaluate program effectiveness to improve the nutritional value, taste, appearance and preparation of food
- Work within industry in the development, testing and evaluation, and marketing of food and nutrition products or as a company representative supplying product related information to health professionals
- Confer with other health professionals, community groups, government and the media to provide consultation and advice in areas of nutrition interpretation, intervention and policy
- Supervise training of dietetic interns.
- Dietitians and nutritionists may specialize in areas such as administrative dietetics, clinical dietetics, community dietetics, public health nutrition or research dietetics.

*Employment requirements*
- A university degree in pharmacy and a period of supervised practical training are required.
- Dietitians require a bachelor's or master's degree in dietetics, nutrition or a related field such as food and nutritional science or biochemistry and A period of supervised practical training.
- Licensure is required in all provinces and territories for community and hospital pharmacists.
- Membership in the national association, Dietitians of Canada, may be required for dietitians to practise.
- Nutritionists usually require similar education and training as dietitians.
- Registration with a regulatory body is required in all provinces for dietitians.

*Additional information*
- Dietitians and nutritionists may progress to management positions through additional experience.

## 314 Therapy and assessment professionals

This minor group includes audiologists, speech-language pathologists, physiotherapists, occupational therapists, and other medical therapists. They are employed by hospitals, community and public health centres, extended care and health care facilities, nursing homes, clinics, rehabilitation and recreational centres, and private and social services agencies; educational institutions, and sports organizations; in industry; or they may be self-employed.

### 3141 Audiologists and speech-language pathologists

Audiologists diagnose, evaluate and treat individuals with peripheral and central hearing loss, tinnitus and balance problems. Speech-language pathologists diagnose, assess and treat human communication disorders including speech, fluency, language, voice and swallowing disorders. Audiologists and speech-language pathologists are employed in hospitals, community and public health centres, extended care facilities, day clinics, rehabilitation centres and educational institutions, or may work in private practice. Audiologists and speech-language pathologists who are supervisors are included in this unit group.

*Illustrative example(s)*

- audiologist
- certified audiologist
- clinical audiologist
- educational speech-language pathologist
- research audiologist
- speech therapist
- speech-language clinician

*Exclusion(s)*

- Audiology and speech-language technical and assisting occupations (see 3237 Other technical occupations in therapy and assessment)
- Braille, lip-reading and sign language instructors (see 4215 Instructors of persons with disabilities)
- Managers in health care (see 0311 Managers in health care)
- Phoniatricians (see 3111 Specialist physicians)

*Main duties*

Audiologists perform some or all of the following duties:

- Develop and administer audiometric tests and examinations using specialized instruments and electronic equipment to diagnose and evaluate the degree and type of patients' hearing impairment
- Plan and implement habilitation/rehabilitation programs for patients, including selection, fitting and adjustment of amplification devices, such as hearing aids, balance retraining exercises, and teaching speech (lip) reading
- Educate and counsel patients and families regarding the nature, extent, impact and implications of hearing loss and treatment
- Establish personalized care plans working as a member of an interdisciplinary team
- Conduct research related to hearing and hearing disorders
- May instruct and supervise audiometric technicians, students and other health care personnel.

Speech-language pathologists perform some or all of the following duties:

- Administer tests and examinations and observe patients to diagnose and evaluate speech, voice, resonance, language, fluency, cognitive-linguistic and swallowing disorders
- Develop, plan and implement remedial programs to correct speech, voice, language, fluency, resonance, cognitive-linguistic and swallowing disorders
- Establish group and personalized care plans working as a member of an interdisciplinary team
- Educate and counsel patients and families regarding communication and swallowing disorders
- Conduct research on speech and other communication disorders and on the development and design of diagnostic procedures and devices
- May instruct and supervise communicative disorders assistants, students and other health care personnel.

*Employment requirements*

- Audiologists require a master's degree in audiology.
- Membership with the national association, Dietitians of Canada, and/or a provincial regulatory body is available for nutritionists who have the same education and practical training as dietitians.
- Registration with a regulatory body is required for audiologists and speech-language pathologists in Newfoundland and Labrador, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.
- Registration with a regulatory body is required for nutritionists in Nova Scotia (as a registered dietitian-nutritionist) in New Brunswick, Quebec and Alberta.
- Speech-language pathologists require a master's degree in speech-language pathology.

*Additional information*

- Progression into management positions, such as chief audiologist or director of speech-language pathology, is possible with experience.

## 3142 Physiotherapists

Physiotherapists assess patients and plan and carry out individually designed treatment programs to maintain, improve or restore physical functioning and mobility, alleviate pain and prevent physical dysfunction in patients. Physiotherapists are employed in hospitals, clinics, industry, sports organizations, rehabilitation centres and extended care facilities, or they may work in private practice.

*Inclusion(s)*

- physical therapy clinical co-ordinator
- physiotherapy clinical co-ordinator

*Illustrative example(s)*

- physical therapist
- physiotherapist
- registered physiotherapist
- research physiotherapist

*Exclusion(s)*

- Directors of physiotherapy (see 0311 Managers in health care)
- Physical rehabilitation technicians (see 3237 Other technical occupations in therapy and assessment)

*Main duties*

Physiotherapists perform some or all of the following duties:

- Assess patients' physical abilities through evaluative procedures such as functional ability tests
- Establish treatment goals with patients based on physical diagnoses
- Plan and implement programs of physiotherapy including therapeutic exercise, manipulations, massage, education, the use of electro-therapeutic and other mechanical equipment and hydro-therapy
- Evaluate effectiveness of treatment plans and modify accordingly
- Provide advice on exercise and strategies to implement at home to enhance and or maintain treatment
- Communicate with referring physician and other healthcare professionals regarding patients' problems, needs and progress
- Maintain clinical and statistical records and confer with other health care professionals
- Develop and implement health promotion programs for patients, staff and the community
- May conduct research in physiotherapy
- May provide consulting or education services.
- Physiotherapists may focus their practice in particular clinical areas such as neurology, oncology, rheumatology, orthopedics, obstetrics, pediatrics, geriatrics, in the treatment of patients with cardiovascular and cardiopulmonary disorders, burns or sports injuries or in the field of ergonomics.

*Employment requirements*

- A university degree in physiotherapy and a period of supervised practical training are required.
- In some jurisdictions, audiologists may be required to obtain a separate licence to dispense hearing aids.
- Membership in the national association, Canadian Association of Speech-Language Pathologists and Audiologists, is usually required.
- Physical rehabilitation therapists, who are only found in Quebec, require completion of a 3 year college program.

*Additional information*

- In Quebec, physical rehabilitation therapists cannot provide a diagnosis.
- Progression to management positions, such as director of physiotherapy, is possible through experience and additional training.

## 3143 Occupational therapists

Occupational therapists develop individual and group programs with people affected by illness, injury, developmental disorders, emotional or psychological problems and ageing to maintain, restore or increase their ability to care for themselves and to engage in work, school or leisure. They also develop and implement health promotion programs with individuals, community groups and employers. They are employed in health care facilities, in schools, and by private and social services agencies, or they may be self-employed.

*Illustrative example(s)*

- case manager occupational therapist
- clinical occupational therapist
- community occupational therapist
- occupational therapist (OT)
- occupational therapy rehabilitation consultant
- research and development occupational therapist

*Exclusion(s)*

- Directors of occupational therapy (see 0311 Managers in health care)
- Orientation and mobility instructors (see 4215 Instructors of persons with disabilities)

*Main duties*

Occupational therapists perform some or all of the following duties:

- Analyse clients' capabilities and expectations related to life activities through observation, interviews and formal assessments
- Develop intervention programs to address clients' needs related to self-care, work and leisure activities
- Maintain clients' records
- Establish personalized care plans working as a member of an interdisciplinary team
- Consult and advise on health promotion programs to prevent disabilities and to maximize independent function in all activities of life
- May supervise support personnel and students and provide training.
- Occupational therapists may specialize in working with specific populations such as children or adults, or persons with distinct problems such as dementia, traumatic brain injury and chronic pain, or provide special interventions such as return-to-work programs.

*Employment requirements*

- A licence or registration with a regulatory body is required in all provinces and territories.
- A university degree in occupational therapy including supervised fieldwork is required.
- Completion of a national or provincial certification examination is required.
- Completion of a physiotherapist competency examination is required in all provinces and territories.
- Licensure with a regulatory body is required in all provinces and territories.

*Additional information*

- Occupational therapists may progress to management or administrative positions through further training and experience.

## 3144 Other professional occupations in therapy and assessment

This unit group includes specialized therapists not elsewhere classified who use techniques such as athletic, movement, art or recreational therapy to aid in the treatment of mental and physical disabilities or injuries. They are employed by establishments such as hospitals, rehabilitation centres, extended health care facilities, clinics, recreational centres, nursing homes, industry, educational institutions and sports organizations, or they may work in private practice.

*Illustrative example(s)*

- art therapist
- athletic therapist

- certified athletic therapist (CAT)
- certified kinesiologist
- drama therapist
- exercise physiologist
- human kineticist
- kinesiologist
- movement therapist
- music therapist
- recreational therapist
- registered dance therapist (DTR)

*Exclusion(s)*

- Family, marriage and other related counsellors (see 4153 Family, marriage and other related counsellors)
- Occupational therapists (see 3143 Occupational therapists)
- Physiotherapists (see 3142 Physiotherapists)
- Recreation, sports and fitness policy researchers, consultants and program officers (see 4167 Recreation, sports and fitness policy researchers, consultants and program officers)
- Technical assistants in therapy and assessment (see 3237 Other technical occupations in therapy and assessment)

*Main duties*

Therapists and other professionals in this unit group perform some or all of the following duties:

- Assess patients and review reports from physicians, physiotherapists, psychiatrists, counsellors, teachers and other professionals to determine patients' current and potential functioning level
- Prepare individualized and group treatment plans either independently or through a multidisciplinary team approach, based on health concerns and on recommendations from physicians or other health professionals
- Design specialized therapy programs to maintain, rehabilitate or enhance movement, musculoskeletal functioning and performance in sports, work and recreation
- Implement treatment plans by carrying out specialized therapy sessions employing approaches and techniques such as art, drama and music therapy or dance, recreational, sports or other movement therapy
- Observe, record observations and analyze patients during treatment sessions, write progress reports on patient outcomes and consult with other health professionals to evaluate treatment plans
- May provide education to clients regarding health promotion and injury prevention, management and treatment
- May conduct research in respective field of specialization.

*Employment requirements*

- Art therapists require a bachelor's degree in psychology and a master's degree in art therapy.
- Athletic therapists require a bachelor's degree in sport therapy, or a degree in health sciences with a specialization in sports injury management.
- Certification for kinesiologists is available through the Canadian Kinesiology Alliance.
- Dance therapists require a bachelor's degree in psychology, and usually require a master's degree in art, drama or movement therapy.
- Kinesiologists usually require a master's degree in kinesiology or human kinetics.
- Membership in the national association, Canadian Association of Occupational Therapists, is required in some provinces.
- Music therapists require a bachelor's degree in psychology and a master's degree in music therapy.
- Occupational therapists may obtain expertise in a particular area through additional training or experience.
- Recreational therapists usually require a bachelor's degree in recreation with a specialization in therapeutic recreation.
- Supervised practical training is usually required for occupations in this unit group.

*Additional information*

- There is no mobility between the different occupations in this unit group.

## 32 Technical occupations in health

This major group comprises technical occupations in health. It includes medical technologists and technicians; denturists, dental hygienists, and dental therapists; and opticians, practitioners of natural healing, licensed practical nurses, massage therapists and others in paramedical and other technical occupations in health.

## 321 Medical technologists and technicians (except dental health)

This minor group includes medical technologists and technicians, except those involved in dental health. They are employed by medical, radiological, and animal research laboratories; hospitals, clinics, extended and long-term care facilities, nursing homes, and public health and cancer treatment centres; respiratory home care, and pharmaceutical companies; retail and hospital pharmacies; pharmaceutical and prosthetic device manufacturers; custom ocular prosthetic, prosthetics, and orthotics laboratories; fast food outlets, cafeterias, schools, and health care and commercial food service establishments; animal hospitals, veterinary clinics, animal shelters, and zoos; colleges and universities, research facilities, and government; or they may be self-employed.

## 3211 Medical laboratory technologists

Medical laboratory technologists conduct medical laboratory tests, experiments and analyses to assist in the diagnosis, treatment and prevention of disease. They are employed in medical laboratories in hospitals, blood banks, community and private clinics, research facilities and post-secondary educational institutions. Medical laboratory technologists who are supervisors are included in this unit group.

*Illustrative example(s)*

- clinical immunology technologist
- cytogenetics technologist - medical laboratory
- histology technologist
- immunohematology technologist
- medical laboratory supervisor
- medical laboratory technologist
- medical technologist - medical laboratory

*Exclusion(s)*

- Life science technologists in non-medical laboratories (see 2221 Biological technologists and technicians)
- Medical laboratory technicians and pathologists' assistants (see 3212 Medical laboratory technicians and pathologists' assistants)
- Science technologists in non-medical laboratories (see 2211 Chemical technologists and technicians)

*Main duties*

Medical laboratory technologists perform some or all of the following duties:

- Set up, operate and maintain laboratory equipment
- Conduct and interpret chemical analyses of blood, urine, and cerebrospinal and other body fluids
- Study blood cells and other tissues to determine their relation to various physiological and pathological conditions
- Prepare tissue sections for microscopic examinations using techniques to demonstrate special cellular tissue elements or other characteristics
- Perform and interpret blood group, type and compatibility tests for transfusion purposes
- Establish procedures for the analysis of specimens and for medical laboratory experiments
- Conduct quality control assessment of testing techniques
- May supervise and train other medical laboratory technical staff, students and helpers
- May assist pathologists during autopsies.
- Medical laboratory technologists may specialize in areas such as clinical chemistry, clinical microbiology, hematology, histotechnology, immunohematology, cytotechnology and cytogenetics.

*Employment requirements*

- A two- or three-year college program in medical laboratory technology is required and A period of supervised practical training may be required.
- Certification or membership with the appropriate national professional association or provincial counterpart may be required.
- Creative or technical ability in the field of specialization is usually required.

## 3212 Medical laboratory technicians and pathologists' assistants

Medical laboratory technicians conduct routine medical laboratory tests and set up, clean and maintain medical laboratory equipment. They are employed in medical laboratories in hospitals, clinics, research facilities, post-secondary educational institutions and government research laboratories. Pathologists' assistants assist at autopsies and examinations of surgical specimens or perform autopsies under a pathologist's supervision. They are usually employed in hospitals and universities.

*Inclusion(s)*

- blood bank technician
- renal technician

*Illustrative example(s)*

- medical laboratory assistant
- medical laboratory technician
- pathology assistant
- phlebotomist
- phlebotomy aide

*Exclusion(s)*

- Biological technicians in non-medical laboratories (see 2221 Biological technologists and technicians)
- Chemical technicians in non-medical laboratories (see 2211 Chemical technologists and technicians)
- Medical laboratory technologists (see 3211 Medical laboratory technologists)

*Main duties*

Medical laboratory technicians perform some or all of the following duties:

- Collect, sort and prepare blood, tissue and other samples from patients
- Log and validate patient samples and prepare them for testing
- Set up medical laboratory equipment
- Conduct routine laboratory tests and sample analyses
- Perform quality assurance of testing techniques
- Clean and maintain medical laboratory and medical laboratory equipment.

Pathologists' assistants perform some or all of the following duties:

- Prepare for autopsies by obtaining patients' medical records and arranging for radiographic examinations
- Prepare, assist with or perform autopsies and surgical specimen examinations under pathologists' supervision
- Dissect, examine, weigh, photograph and X-ray organs and specimens, collect tissue samples for chemical analysis and record findings
- Discard specimens according to established safety procedures
- Clean and maintain instruments, equipment and supplies
- Develop and maintain processes for laboratory quality control
- May prepare bodies for release to funeral homes following completion of autopsies
- May supervise and train junior resident pathologists and morgue attendants.

*Employment requirements*

- Certification by the Canadian Society for Medical Laboratory Science is usually required by employers for medical laboratory technicians/assistants.
- Certification by the Canadian Society for Medical Laboratory Science is usually required by employers.

- Combined laboratory and X-ray technicians require completion of a combined laboratory X-ray technology program.
- Medical laboratory technicians/assistants require completion of a college certificate program in medical laboratory science.
- Registration with a regulatory body is required in Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, and Alberta.

## 3213 Animal health technologists and veterinary technicians

Animal health technologists and veterinary technicians provide technical support to veterinarians by caring for animals and assisting in the diagnosis and treatment of animal health disorders. They are employed in veterinary clinics, animal hospitals, animal shelters, humane societies, zoos, animal research laboratories, pharmaceutical companies and government. Animal health technologists and veterinary technicians who are supervisors are included in this unit group.

*Illustrative example(s)*

- animal health technician
- animal health technologist
- laboratory animal technician
- registered veterinary technician (RVT)
- veterinarian assistant
- veterinary technician
- veterinary technologist

*Exclusion(s)*

- Pet groomers and animal care workers (see 6563 Pet groomers and animal care workers)

*Main duties*

Animal health technologists and veterinary technicians perform some or all of the following duties:

- Provide nursing care and rehabilitation therapy for animals
- Handle, restrain and care for animals undergoing treatment and surgery
- Produce radiographs, collect and analyse samples and perform other laboratory tests to assist in diagnosis of animal health problems
- Assist veterinarian with animals before, during and following surgery by preparing surgical equipment, administering and monitoring anaesthetics and cleaning up after surgery
- Prepare and administer medications and vaccines under direction of a veterinarian
- Administer treatments as prescribed by a veterinarian
- Provide wound and bandage care
- Conduct specialized procedures such as animal identification and hoof trimming
- Educate and advise clients on animal health care including nutrition and home care
- Assist in laboratory research
- Perform routine animal dental procedures and assist veterinarians with animal dentistry
- May perform a variety of office management and clerical duties.

*Employment requirements*

- Certification by the American Society for Clinical Pathology - Board of Certification or Pathologists' Assistant Certification Examination is usually required by employers.
- Completion of a two- or three-year animal health/veterinary technology college program is required.
- Pathologists' assistants require some post-secondary courses or a university degree in life sciences and Specialized on-the-job training.

*Additional information*

- With experience, animal health technologists and veterinary technicians may progress to supervisory positions.

## 3214 Respiratory therapists, clinical perfusionists and cardiopulmonary technologists

Respiratory therapists assist physicians in the diagnosis, treatment and care of patients with respiratory and cardiopulmonary disorders. Clinical perfusionists provide technical support to patients undergoing cardiac surgery and patients requiring cardio-respiratory support. Cardiopulmonary technologists assist physicians in the technical aspects of diagnosis and treatment of cardiovascular and pulmonary disease. Respiratory therapists are employed in hospitals, extended care facilities, public health centres and respiratory home care companies. Clinical perfusionists and cardiopulmonary technologists are primarily employed in hospitals. Respiratory therapists, clinical perfusionists and cardiopulmonary technologists who are supervisors or instructors are included in this unit group.

*Inclusion(s)*

- anesthesia technologist
- polysomnographic technologist

*Illustrative example(s)*

- cardiopulmonary technologist
- cardiovascular perfusion supervisor
- cardiovascular perfusionist
- certified clinical perfusionist (CCP)
- chief respiratory technologist
- clinical perfusionist
- perfusionist
- registered respiratory therapist (RRT)
- respiratory therapist
- respiratory therapy chief
- respiratory therapy clinical instructor

*Exclusion(s)*

- Other medical technologists and technicians (except dental health) (see 3219 Other medical technologists and technicians (except dental health))
- Other technical occupations in therapy and assessment (see 3237 Other technical occupations in therapy and assessment)

*Main duties*

Respiratory therapists perform some or all of the following duties:

- Perform diagnostic tests, such as arterial blood gas analysis and cardiopulmonary functions tests
- Operate and monitor respiratory equipment to administer treatments such as oxygen, oxygen-air mixtures, humidified air or medications
- Operate, monitor, maintain and test a variety of diagnostic and therapeutic equipment
- Assess patients and perform or assist with interventions such as airway maintenance, line insertions, inductions and intubations
- Perform artificial respiration and external cardiac massage
- Assist with transport of high-risk patients
- Supervise and train students and other respiratory therapists
- Participate in home care programs for chronic respiratory patients and provide patient and family education
- Participate in research related to cardiac and pulmonary disorders.
- Respiratory therapists may specialize in areas such as anaesthesia, critical care, pediatrics, cardiopulmonary diagnostics and respiratory home care.

Clinical perfusionists perform some or all of the following duties:

- Assemble, maintain and operate extracorporeal circulation equipment, intra-aortic balloon pumps and other heart assist devices to support or temporarily replace patients' cardiopulmonary functions during open-heart surgery
- Administer blood products, drugs and other substances through heart-lung machines and other devices as directed by cardiac surgeons and anaesthetists to maintain adequate flow of oxygenated blood to all organs of the body

- Monitor vital signs to support and maintain patients' physiological functions and metabolic needs during cardiopulmonary surgery
- Participate in routine maintenance, calibration and inspection of all perfusion related equipment
- Supervise and train student clinical perfusionists and other clinical perfusionists.

Cardiopulmonary technologists perform some or all of the following duties:

- Perform diagnostic tests, such as pulmonary function and asthma stress, or assist physicians with cardiac and cardiopulmonary stress tests and bronchoscopies
- Determine patients' blood characteristics such as activated clotting time and oxygen saturation
- Operate, monitor, maintain, calibrate and test diagnostic and therapeutic equipment
- Monitor patients and advise physician of any changes in patients' condition
- Prepare medications and administer inhaler and other treatments under supervision of cardiologist
- Provide information and care for patients during tests
- Assist with the preparation of cardiac catheterization room, prepare specialized catheters and assist cardiologists during catheterization
- Perform analysis, programming and monitoring of implanted devices such as pacemakers and defibrillators during surgery
- Supervise and train students and other cardiopulmonary technologists
- Provide technical support for research.

*Employment requirements*

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- Certification with the Canadian Society of Clinical Perfusion is required for clinical perfusionists.
- Clinical perfusionists require the completion of a respiratory therapy or registered nursing program with a minimum of one year of work experience as a respiratory therapist or registered nurse and Completion of a college or university program in clinical perfusion, including clinical training.
- Licensing is required for respiratory therapists in Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and Alberta.
- Registration with provincial animal health technologists' or veterinary technicians' associations is available, and is mandatory in some provinces.
- Respiratory therapists require the completion of a three-year college, hospital or university degree program in respiratory therapy, including clinical training.
- Successful completion of a national registration examination may be required in some employment settings.

*Additional information*

- Supervisory and instructor positions in this unit group require experience in their respective fields as a respiratory therapist, clinical perfusionist or cardiopulmonary technologist.

## 3215 Medical radiation technologists

This unit group includes technologists who operate radiographic and radiation therapy equipment to administer radiation treatment and produce images of body structures for the diagnosis and treatment of injury and disease. They are employed in hospitals, cancer treatment centres, clinics, radiological laboratories, colleges and universities. Medical radiation technologists who are supervisors or instructors are included in this unit group.

*Inclusion(s)*

- diagnostic imaging technologist
- magnetic resonance imaging (MRI) technologist

*Illustrative example(s)*

- mammography technician
- nuclear medicine clinical instructor
- nuclear medicine technologist
- nuclear medicine technologists supervisor
- radiation oncology technologist
- radiation therapist

- radiation therapy clinical instructor
- radiation therapy technologist (RTT)
- radiography technologist
- radiological technologist
- radiotherapy technician
- X-ray (radiology) technician

*Exclusion(s)*

- Other medical technologists and technicians (see 321 Medical technologists and technicians (except dental health))

*Main duties*

Medical radiation technologists perform some or all of the following duties:

- Radiological technologists
- Operate X-ray, radiographic and fluoroscopic equipment, computerized tomography (CT) scanners, mammography units and magnetic resonance imaging (MRI) scanners to produce radiographs or anatomic images of the human body for the diagnosis by radiologists of disease or injury
- Record and process patient data
- Perform basic verification and quality control checks on radiographic and film processing equipment
- Provide appropriate care and monitoring of the patient during the radiographic examination
- Explain procedures, position patient and equipment and apply radiation protection measures
- May train and supervise student radiographers or supervise other radiological technologists.
- Radiological technologists may specialize in areas such as computerized tomography, angiography, mammography, magnetic resonance imaging, interventional radiology, dosimetry, stereotaxy or brachytherapy.
- Nuclear medicine technologists
- Prepare and administer radiopharmaceuticals, such as radionuclides and other tracer materials to patients or to biological samples
- Operate radiation detection equipment, such as gamma cameras, scanners, scintillation counters, tomodensitometers and ionization chambers, to acquire data for use by nuclear medicine physicians in the diagnosis of disease
- Perform diagnostic procedures using radioactive materials on biological specimens, such as blood, urine and faeces
- Record and process results of procedures
- Check equipment to ensure proper operation
- Provide appropriate care and monitoring of the patient during the examination
- Apply radiation protection measures
- May train and supervise student nuclear medicine technologists or supervise other nuclear medicine technologists.
- Radiation therapists
- Operate linear accelerators, cobalt 60, X-ray and other radiation therapy equipment to administer radiation treatment prescribed by radiation oncologists
- Check radiation therapy equipment to ensure proper operation
- Assist radiation oncologists and clinical physicists with preparation of radiation treatment plan
- Assist in the preparation of sealed radioactive materials such as cobalt, radium, cesium and isotopes and the construction of devices such as plaster casts and acrylic moulds to assist with administration of radiation treatment
- Provide appropriate care and monitoring of the patient's physical and psychological well-being during the entire course of treatment
- Explain procedures and side effects of radiation
- May train and supervise student radiotherapy technologists or supervise other radiotherapy technologists.

*Employment requirements*

- Cardiopulmonary technologists require a two-year college diploma in an allied health discipline such as respiratory therapy, nursing diploma, or a university degree in a related science and Completion of a college post-diploma program in cardiovascular technology and additional training in pulmonary technology through courses or supervised on-the-job clinical training.
- Completion of a two- to three-year college, hospital or other approved program in diagnostic radiography or magnetic resonance imaging (for radiological technologists and magnetic resonance technologists), nuclear medicine technology (for nuclear medicine technologists) or radiation therapy (for radiation therapists) or A bachelor of health sciences in radiography, nuclear medicine or radiation therapy and A period of supervised practical training are required.
- Licensure with a regulatory body is required in Nova Scotia, New Brunswick, Quebec, Ontario, Saskatchewan and Alberta.
- Registration with the Canadian Association of Cardio-pulmonary Technologists (CACPT) may be required.

*Additional information*

- Experience as a medical radiation technologist is required for supervisors and instructors.
- There is no mobility between the three types of medical radiation technologists without further training.

## 3216 Medical sonographers

Medical sonographers operate ultrasound equipment to produce and record images of various parts of the body to aid physicians in monitoring pregnancies and in diagnosing cardiac, ophthalmic, vascular and other medical disorders. They are employed in clinics and hospitals. Medical sonographers who are supervisors or instructors are included in this unit group.

*Illustrative example(s)*

- diagnostic medical sonography instructor
- medical sonographer
- medical sonographers supervisor
- registered diagnostic medical sonographer (RDMS)
- ultrasound technologist

*Exclusion(s)*

- Medical radiation technologists (see 3215 Medical radiation technologists)

*Main duties*

Medical sonographers perform some or all of the following duties:

- Operate ultrasound imaging equipment that transmits high frequency sound pulses through the body to produce images of those parts of the body requiring examination
- Monitor examination by viewing images on video screen, to evaluate quality and consistency of diagnostic images, and make adjustments to equipment, as required
- Record, store and process scanned images by using camera unit connected to ultrasound equipment
- Observe and care for patients throughout examinations to ensure patient safety and comfort
- Prepare examination reports for physicians to aid in the monitoring of pregnancies and the diagnosis of cardiac, abdominal, ophthalmic, vascular and other disorders
- Perform quality control checks on ultrasound equipment to ensure proper operation and perform minor repairs and adjustments as required
- May supervise and train student and other medical sonographers.
- Medical sonographers may specialize in abdominal, cardiac, cerebral, obstetrical and gynaecological, ophthalmic, intraluminal or peripheral vascular sonography. They may also specialize in adult or pediatric echocardiography or neurosonology.

*Employment requirements*

- Certification by the Canadian Association of Medical Radiation Technologists is required in all provinces except Quebec and British Columbia.

- Completion of a three- to four-year program in diagnostic medical sonography or ultrasound technology or Completion of a two- to three-year program in a related allied health field and a one-year post-diploma program in diagnostic medical sonography from an accredited institution are required.
- Membership with a provincial association is required in Newfoundland and Labrador, Prince Edward Island and Manitoba.

*Additional information*
- Membership in the Canadian Society of Diagnostic Medical Sonographers is available but voluntary.

## 3217 Cardiology technologists and electrophysiological diagnostic technologists, n.e.c.

Cardiology technologists operate electrocardiogram equipment and use medical imaging technologies to record cardiac activity of patients to aid in the diagnosis, monitoring and treatment of heart disease. Electrophysiological diagnostic technologists, not elsewhere classified, operate electroencephalographic, electromyographic and other electrophysiological diagnostic equipment to assist physicians in diagnosing diseases, injuries and abnormalities. Cardiology technologists and electrophysiological diagnostic technologists who are supervisors or instructors are included in this unit group. They are employed in clinics, hospitals and medical laboratories.

*Inclusion(s)*
- cardiac catheterization technologist
- cardiovascular technician
- cardiovascular technologist

*Illustrative example(s)*
- cardiac stress technologist
- cardiology supervisor
- cardiology technologist
- electrocardiographic (ECG) technologist
- electrocardiography technologist
- electroencephalograph (EEG) technologist
- electromyography (EMG) technologist
- electroneurodiagnostic (END) technologist
- electroneurophysiology (ENP) technologist

*Exclusion(s)*
- Cardiology nurse technicians (see 3012 Registered nurses and registered psychiatric nurses)
- Cardiovascular perfusionists (see 3214 Respiratory therapists, clinical perfusionists and cardiopulmonary technologists)

*Main duties*

Cardiology technologists perform some or all of the following duties:
- Operate electrocardiogram and other electronic equipment to record cardiac activity of patients
- Perform non-invasive cardiovascular procedures and tests, such as electrocardiograms, exercise tolerance tests, ambulatory monitoring and scanning of tapes, holter arrhythmia scanning, pacemaker analysis and follow-up
- Record and assess cardiac activity and provide preliminary reports of tests
- Provide patients with care during procedures and tests
- Prepare reports for interpretation by cardiologists
- Reprogram pacemakers according to required standards
- Check, calibrate and perform routine maintenance of cardiology equipment to ensure proper operation
- May analyze tests and notify physician or other health care professionals of abnormalities
- May administer certain drugs under direct supervision of physician
- May document and record pacemaker implant threshold measurements under direct supervision of cardiac surgeon
- May supervise and train students, other cardiology technologists and nurses.

Electrophysiological technologists perform some or all of the following duties:

- Review patient's case history and assess nature of problem to determine procedures and tests required
- Attach diagnostic equipment to patients and ensure their comfort and safety
- Operate diagnostic equipment such as electroencephalographic and evoked potential equipment to record the electrical activity of the brain and cranial and central nervous systems
- Operate electromyographic equipment to conduct electrophysiological nerve conduction velocity tests and to assist physicians in conducting electrophysiological tests such as muscle strength and repetitive stimulation
- Take notes on the recorded graph to identify interference such as poor electrode contact or patient movement
- Prepare recordings and reports of findings for physicians to aid in the diagnosis of neurological disorders
- Check, calibrate and perform routine maintenance of diagnostic equipment
- Train and supervise students, technicians or other electroencephalograph technologists.

*Employment requirements*

- Cardiology technologists require completion of a two-year college diploma program in cardiology technology and Supervised practical training.
- Cardiology technologists require registration with the Canadian Society of Cardiology Technologists in all provinces except Quebec.
- Electroencephalograph and other diagnostic technologists require completion of a two-year college or hospital-based program in electrophysiology technology and Supervised practical training.
- Registration with l'Ordre des technologues en imagerie médicale, en radio-oncologie et en électrophysiologie médicale du Québec is required in Quebec.
- Registration with Sonography Canada and/or the American Registry of Diagnostic Medical Sonographers is usually required by employers.
- Registration with the Canadian Board of Electroencephalograph Technologists is available for electroencephalograph technologists; it is required in Alberta and is usually required by employers in other provinces.

## 3219 Other medical technologists and technicians (except dental health)

This unit group includes medical technologists and technicians not elsewhere classified, such as dietary technicians, pharmacy technicians, ocularists, prosthetists, orthotists, prosthetic technicians and orthotic technicians. Dietary technicians are employed in health care and commercial food service establishments such as hospitals, extended care facilities, nursing homes, schools, cafeterias and fast food outlets. Pharmacy technicians are employed in retail and hospital pharmacies, long-term care facilities and by pharmaceutical manufacturers. Ocularists are employed in custom ocular prosthetic laboratories, or they may be self-employed. Prosthetists, orthotists and prosthetic and orthotic technicians are employed in hospitals, clinics, prosthetics and orthotics laboratories, and prosthetic device manufacturing companies. Prosthetists and orthotists may also be self-employed.

*Illustrative example(s)*

- dietary technician
- food and nutrition technician - dietetics
- ocularist
- ocularist technician
- orthotic technician
- orthotist
- pharmacy technician
- prosthetic technician
- prosthetist

*Exclusion(s)*

- Other health care technologists and technicians (see 321 Medical technologists and technicians (except dental health))
- Pharmacy aides (see 3414 Other assisting occupations in support of health services)
- Technologists and technicians in therapy and assessment (see 3237 Other technical occupations in therapy and assessment)

*Main duties*

Dietary technicians perform some or all of the following duties:

- Assist dietitians or nutritionists to plan and supervise food service operations
- Plan menus and diet for individuals or groups under the direction of a dietitian or nutritionist
- Assist in the supervision of personnel who prepare and serve food
- Help patients select menu items
- Assist dietitians with research in food, nutrition and food service systems.

Pharmacy technicians perform some or all of the following duties:

- Assist pharmacists to maintain inventories of medications and prescription records of pharmaceutical products
- Ensure the information on prescriptions is accurate
- Enter client information in databases and prepare medications for clients
- Compound oral solutions, ointments and creams
- Bill third party insurers
- May help with scheduling and workflow.

Ocularists perform some or all of the following duties:

- Design, fabricate and fit ocular prostheses and conformers, and may design and fabricate implants
- Paint the iris and pupil of artificial eyes
- Clean and restore ocular prostheses
- Advise patients concerning the loss of depth perception and the care and use of ocular prostheses
- Repair and maintain fabrication and laboratory equipment
- Consult with ophthalmologists concerning insertion of ocular prostheses.

Prosthetists and orthotists perform some or all of the following duties:

- Design, fabricate and fit prosthetic and orthotic appliances such as artificial limbs, braces or supports
- Interpret physicians' specifications and examine and measure patients to develop working sketches of appliances
- Make and modify plaster casts of areas to receive prostheses or orthoses
- Fit, adjust and repair appliances
- Advise patients in the use and care of prostheses and orthoses
- Supervise and direct the activities of prosthetic and orthotic technicians.

Prosthetic and orthotic technicians perform some or all of the following duties:

- Assemble or build prosthetic and orthotic appliances according to drawings, measurements and plaster casts using a variety of materials such as metals, plastics and leathers
- Repair, rebuild and modify prosthetic and orthotic appliances or orthopaedic footwear
- May take the body or limb measurements of patients.

*Employment requirements*

- Certification by the Canadian Board of Certification of Prosthetists and Orthotists (CBCPO) may be required.
- Certification by the National Examining Board of Ocularists is usually required.
- Dietary technicians require completion of a two- to three-year college program in dietary technology and supervised practical training.
- Ocularists require completion of the education program of the American Society of Ocularists and supervised practical training or A five-year supervised practical training program under a certified ocularist.
- Pharmacy technicians usually require completion of a two- to three-year college program in pharmaceutics.
- Prosthetists and orthotists require a two-year college program in prosthetics and orthotics technology and three years of supervised practical training.
- Registration with a regulatory body is required for pharmacy technicians in all provinces except Quebec and Saskatchewan.
- Registration with l'Ordre des technologues en imagerie médicale, en radio-oncologie et en électrophysiologie médicale du Québec is required for cardiology technologists and electrophysiological technologists in Quebec.
- Registration with the Association of Electromyography Technologists of Canada is available for electromyography technologists and is usually required by employers.

*Additional information*

- Prosthetic and orthotic technicians may become certified prosthetists or orthotists with an additional two years of experience as a registered prosthetic or orthotic technician and completion of certification examinations by the Canadian Board of Certific

## 322 Technical occupations in dental health care

This minor group includes such technical occupations in dental health care as denturists, dental hygienists, dental therapists, dental technologists, dental technicians, and dental laboratory assistants. They work in private practice; and are employed by dentists' offices, hospitals, and clinics; educational institutions; governments and government agencies; dental laboratories; and in private industry.

### 3221 Denturists

Denturists examine patients and design, construct and repair removable dentures. Most denturists work in private practice.

*Illustrative example(s)*

- dental mechanic
- denturist
- denturologist

*Exclusion(s)*

- Dental assistants (see 3411 Dental assistants)
- Dental hygienists and dental therapists (see 3222 Dental hygienists and dental therapists)
- Dental technologists, technicians and laboratory assistants (see 3223 Dental technologists, technicians and laboratory assistants)
- Dentists (see 3113 Dentists)

*Main duties*

Denturists perform some or all of the following duties:

- Measure patients' jaws to determine size and shape of dentures required
- Make impressions of patients' teeth, gums and jaws
- Design and construct dentures or direct other workers to construct dentures
- Insert, fit and modify new dentures
- Repair dentures
- Reline, rebase and adjust dentures
- Fabricate mouth protectors, anti-snoring prostheses and removable prostheses on implants
- May order radiographs
- May prepare partial dentures
- May perform denture whitening and cleaning.

*Employment requirements*

- Completion of a two- or three-year college program in denturism/denturology is required.
- Prosthetic and orthotic technicians usually require a two- to three- year college program in prosthetics and orthotics and one to two years of supervised practical training or Completion of secondary school and up to four years of supervised practical training under a certified prosthetist or orthotist.
- Registration with the Canadian Association of Prosthetists and Orthotists (CAPO) may be required.

### 3222 Dental hygienists and dental therapists

Dental hygienists provide dental hygiene treatment and information related to the prevention of diseases and disorders of the teeth and mouth. They are employed in dentists' offices, hospitals, clinics, educational institutions, government agencies and private industry. Dental therapists carry out limited dental services related to the prevention and treatment of diseases and disorders of the teeth and mouth. They are employed by the federal government and the provincial governments to provide services in rural and remote communities.

*Illustrative example(s)*

- dental hygienist
- dental nurse
- dental therapist

*Exclusion(s)*

- Dental assistants (see 3411 Dental assistants)
- Dental technologists, technicians and laboratory assistants (see 3223 Dental technologists, technicians and laboratory assistants)
- Dentists (see 3113 Dentists)
- Denturists (see 3221 Denturists)

*Main duties*

Dental hygienists and dental therapists perform some or all of the following duties:

- Dental hygienists
- Conduct an initial dental assessment and consult with dentists on patient care
- Take dental impressions
- Instruct patients regarding oral hygiene procedures
- Clean and stimulate the gums to prevent gum disease
- Remove stains and deposits from teeth to prevent tooth and root decay
- Apply fluoride treatment
- Take and develop X-rays
- May perform restorative and orthodontic procedures under the direction of a dentist
- May supervise dental assistants in their health care functions.
- Dental therapists
- Conduct dental assessments and consult with dentist on patient care
- Take dental impressions
- Take and develop X-rays
- Remove stains and deposits from teeth to prevent tooth and root decay
- Apply fluoride treatment
- Instruct patients regarding oral hygiene procedures
- Supervise dental assistants in their health care functions
- May drill and fill cavities, extract teeth and replace portions of tooth crown.

*Employment requirements*

- An internship in a registered denture clinic may be required.
- Dental hygienists are required to complete a college program ranging from one to three years, or other approved program in dental hygiene recognized by the governing board within the province or territory of residence.
- Dental therapists are required to complete a two- to three- year college diploma or equivalent credentials from an approved dental institution. or Complete the dental therapy diploma program offered by the First Nations University of Canada in Prince Albert, Saskatchewan.
- Licensing by a provincial or territorial regulatory body is required.

## 3223 Dental technologists, technicians and laboratory assistants

Dental technologists and technicians design, prepare and fabricate dentures and dental devices as prescribed by dentists and other specialists. Dental laboratory assistants assist dental technologists and technicians in preparing and fabricating dentures and other dental devices. They are employed in dental laboratories. Dental technologists and technicians who are supervisors are included in this unit group.

*Illustrative example(s)*

- ceramic denture moulder
- dental laboratory assistant
- dental technician
- dental technician supervisor

- dental technologist
- denture finisher
- denture wax pattern former
- orthodontic band maker
- registered dental technician
- registered dental technologist

*Exclusion(s)*

- Dental assistants (see 3411 Dental assistants)
- Dental hygienists and dental therapists (see 3222 Dental hygienists and dental therapists)
- Denturists (see 3221 Denturists)

*Main duties*

Dental technologists, technicians and laboratory assistants perform some or all of the following duties:

- Design, fabricate or repair dental devices including full or partial dentures, orthodontic appliances, crowns, bridges, inlays, onlays, clasps and bands, and implants
- Prepare plaster models and moulds from dental impressions
- Prepare wax bite-blocks and impression trays
- Cast gold or metal alloys for bridges and denture bases
- Pack plastic material in moulds to form full or partial dentures
- Mould wax over denture set-up to form full contours of artificial gums
- Make orthodontic bands from gold, silver, stainless steel or other metals
- Finish metal framework of dentures and polish and buff dentures to obtain natural finish
- May consult with dentists or other specialists on problematic dental cases
- May train and supervise other dental technicians and dental laboratory assistants in fabricating dentures and other dental devices
- May perform administrative functions for the dental laboratory.

*Employment requirements*

- Dental technologists and technicians are required to complete a college program in dental technology or Four or more years of on-the-job training under the supervision of a registered dental technologist or technician.
- Licensing by the appropriate provincial or territorial regulatory body is required for dental hygienists.
- Licensure is required for dental therapists in Newfoundland and Labrador, Saskatchewan, the Yukon, the Northwest Territories and Nunavut.

*Additional information*

- Dental laboratory assistants may progress to dental technologist and technician positions with training, experience and registration.

## 323 Other technical occupations in health care

This minor group includes opticians, practitioners of natural healing, licensed practical nurses, massage therapists, paramedical occupations, and other technical occupations in therapy and assessment. They work in private practice, and in the private practices of the professionals they assist; and are employed by optical retail outlets, and optical dispensing departments; clinics, hospitals, nursing homes, extended care facilities, and rehabilitation and community health centres; health clubs, spas, and private homes; ambulance services, and fire departments; government departments and agencies; manufacturing, mining, and other companies; and educational institutions.

## 3231 Opticians

Opticians fit clients with prescription eyeglasses or contact lenses, assist clients in the selection of eyeglass frames, arrange for the production of eyeglasses or contact lenses and mount lenses in eyeglass frames. They are employed in optical retail outlets or other establishments with optical dispensing departments, or they may be self-employed. Student opticians and opticians who are managers of optical retail outlets are included in this unit group.

*Illustrative example(s)*
- contact lens fitter
- contact lens technician
- dispensing optician
- ophthalmic dispenser
- optician

*Exclusion(s)*
- Managers of optical retail outlets or of optical dispensing departments who are not opticians (see 0621 Retail and wholesale trade managers)
- Ocularists (see 3219 Other medical technologists and technicians (except dental health))
- Ophthalmologists (see 3111 Specialist physicians)
- Optical lab technicians (see 3414 Other assisting occupations in support of health services)
- Optometrists (see 3121 Optometrists)

*Main duties*

Opticians perform some or all of the following duties:
- Obtain specifications for eyeglasses or contact lenses from a prescription prepared by an ophthalmologist or optometrist or by analyzing the client's eyeglasses or contact lenses and by measuring client's eye curvature, pupillary distance and bridge width, using optical measuring devices
- Assist clients in selecting eyeglasses by advising on lens materials, frames, tints and anti-reflection coating
- Advise on use and care of contact lenses
- Arrange for grinding and polishing of lenses or grind and polish lenses
- Cut and edge lenses and fit lenses into frames
- Adjust finished eyeglasses to fit client
- May supervise or manage the activities of other opticians or student opticians.

*Employment requirements*
- Completion of a two- or three-year college program in ophthalmic dispensing or optical sciences is required.
- Dental laboratory assistants usually require secondary school and up to two years of on-the-job training.
- Registration with a regulatory body is required for dental technologists and technicians in all provinces except in Manitoba and the territories.

## 3232 Practitioners of natural healing

Practitioners of natural healing provide health care to patients using traditional Chinese medicine techniques and other forms of treatment including acupuncture, herbology or reflexology to promote, maintain and restore the holistic health of patients. They usually work in private practice, including group or team practices, or are employed by clinics, health clubs and spas.

*Illustrative example(s)*
- acupuncturist
- aromatherapist
- ayurvedic practitioner
- herbalist
- homeopathist
- reflexologist
- traditional Chinese medicine practitioner

*Exclusion(s)*
- Massage therapists (see 3236 Massage therapists)
- Midwives (see 3124 Allied primary health practitioners)
- Naturopathic physicians and doctors of osteopathic medicine (see 3125 Other professional occupations in health diagnosing and treating)

*Main duties*

Traditional Chinese medicine practitioners perform some or all of the following duties:
- Diagnose the diseases, physiological disorders and injuries of patients
- Treat them using raw herbs and other medicines, dietary supplements or acupuncture.

Acupuncturists perform some or all of the following duties:
- Diagnose symptoms, physiological disorders and injuries of patients
- Treat them by the insertion of acupuncture needles or through stimulation techniques such as acupressure, moxibustion, cupping or electrical current.

Herbalists perform some or all of the following duties:
- Assess patients and advise them on the use of herbs for the treatment of conditions such as arthritis, rheumatism, asthma, skin disorders and stomach ailments
- May cultivate herbs and manufacture and sell herbal compounds.

Osteopathic manual therapists perform some or all of the following duties:
- Diagnose, treat and manage musculoskeletal and other related disorders of the body's structure by moving, stretching, and massaging a patients' muscles and joints to correct biomechanical dysfunctions.

Homeopaths perform some or all of the following duties:
- Assess illnesses and treat them by administering, in chemical or herbal form, a small dosage of a remedy made from natural substances or by suggesting lifestyle changes.

Reflexologists perform some or all of the following duties:
- Apply gentle finger pressure to specific spots on the clients' feet or hands to promote relaxation and better health and well-being.

*Employment requirements*
- Acupuncturists usually require completion of a three-year diploma program in acupuncture from a private institute or completion of some university undergraduate studies in science and training in a related health care discipline or work experience under the supervision of a registered acupuncturist.
- Homeopaths usually require completion of a three-year diploma program in homeopathy.
- Licensing by a regulatory body for opticians is required in all provinces except British Columbia.
- Licensing requirements for scope of practice and protected titles related to dispensing and contact lens certification vary by province.
- Osteopathic manual therapists require completion of a four- to five- year college program in osteopathy.
- Registration with a regulatory body is required for acupuncturists in Quebec, Ontario, Alberta and British Columbia.
- Registration with a regulatory body is required for traditional Chinese medicine practitioners in Ontario and British Columbia.
- Traditional Chinese medicine practitioners usually require completion of a three- to four-year diploma program in traditional Chinese medicine from a private institute or completion of a program in traditional Chinese medicine from recognized medical schools abroad.

*Additional information*
- Traditional Chinese medicine practitioners may include acupuncture or herbology as part of their healing techniques.

## 3233 Licensed practical nurses

Licensed practical nurses provide nursing care usually under the direction of medical practitioners, registered nurses or other health team members. Operating room technicians prepare patients and provide assistance to medical practitioners prior to and during surgery. Licensed practical nurses are employed in hospitals, nursing homes, extended care facilities, rehabilitation centres, doctors' offices, clinics, companies, private homes and community health centres. Operating room technicians are employed in hospitals.

*Illustrative example(s)*
- graduate nursing assistant
- licensed practical nurse (L.P.N.)

- operating room technician
- registered nursing assistant (R.N.A.)

*Exclusion(s)*

- Home health care workers (see 4412 Home support workers, housekeepers and related occupations)
- Nurse aides, orderlies and patient service associates (see 3413 Nurse aides, orderlies and patient service associates)

*Main duties*

Licensed practical nurses and operating room technicians perform some or all of the following duties:

- Licensed practical nurses
- Provide nursing services, within defined scope of practice, to patients based on patient assessment and care planning procedures
- Perform nursing interventions such as taking vital signs, applying aseptic techniques including sterile dressing, ensuring infection control, monitoring nutritional intake and conducting specimen collection
- Administer medication and observe and document therapeutic effects
- Provide pre-operative and post-operative personal and comfort care
- Monitor established respiratory therapy and intravenous therapy
- Monitor patients' progress, evaluate and document effectiveness of nursing interventions and collaborate with appropriate members of healthcare team
- Provide safety and health education to individuals and their families.
- Operating room technicians
- Prepare patients for surgery by washing, shaving and sterilizing the patients' operative areas
- Assist in surgery by laying out instruments, setting up equipment, assisting surgical teams with gowns and gloves and passing instruments to surgeons
- Monitor patients' status during surgery, such as intake, output and loss of blood, and communicate and document any changes
- Clean and sterilize the operating room and instruments.

*Employment requirements*

- Completion of a vocational, college or other approved program for licensed practical nurses is required.
- Other occupations in this unit group usually require completion of training programs specific to their type of practice and some supervised practical training.
- Registration with a regulatory body is required for homeopaths in Ontario.
- Registration with a regulatory body is required in all provinces and territories.

*Additional information*

- Working under the direction of a medical practitioner or registered nurse is not required for licensed practical nurses in all jurisdictions.

## 3234 Paramedical occupations

This unit group includes workers who administer pre-hospital emergency medical care to patients with injuries or medical illnesses and transport them to hospitals or other medical facilities for further medical care. They are employed by private ambulance services, hospitals, fire departments, government departments and agencies, manufacturing firms, mining companies and other private sector establishments. Paramedics who are supervisors are included in this unit group.

*Inclusion(s)*

- emergency medical assistant
- emergency medical attendant (EMA)

*Illustrative example(s)*

- advanced care paramedic
- ambulance attendant
- ambulance services supervisor

- critical care paramedic
- emergency medical technician (EMT)
- emergency medical technologist - paramedic (EMT-P)
- paramedic
- paramedic emergency medical technician
- primary care paramedic

*Exclusion(s)*

- Emergency medical responders (see 3413 Nurse aides, orderlies and patient service associates)
- Other assisting occupations in support of health services (see 3414 Other assisting occupations in support of health services)

*Main duties*

Workers in this unit group perform some or all of the following duties:

- Assess extent of injuries or medical illnesses of trauma victims, patients with respiratory disease and stress, overdose and poisoning victims, industrial accident victims and other ill or injured individuals to determine emergency medical treatment
- Administer pre-hospital emergency care to patients such as oxygen therapy, cardiopulmonary resuscitation (CPR), spinal immobilization, bandaging and splinting
- Establish and maintain intravenous treatment (IV), apply adjunctive equipment for ventilation and circulation complications, administer medications and provide other advanced emergency treatment to patients
- Transport patients by air, land or water to hospital or other medical facility for further medical care
- Collaborate with ambulance dispatch centres, hospital staff, police, firefighters and family members to ensure relevant information is collected and proper treatment is administered
- Document and record nature of injuries and illnesses and treatment provided
- Assist hospital personnel with provision of medical treatment, if necessary
- Maintain emergency care equipment and supplies
- May train and supervise other workers in this unit group
- May assist with triage of emergency patients.

*Employment requirements*

- Completion of a one- to three-year college, hospital-based or other recognized paramedical or emergency medical technology program is required.
- Completion of a registration examination is required in all provinces and territories.
- Operating room technicians require additional academic training in operating room techniques.

## 3236 Massage therapists

Massage therapists assess soft tissues and joints of the body for treatment and prevention of dysfunction, injury, pain and physical disorders. Massage therapists work in private practice, including group or team practices, hospitals, clinics, extended care facilities, rehabilitation centres and educational institutions.

*Illustrative example(s)*

- massage therapist (MT)
- registered massage practitioner
- registered massage therapist (RMT)

*Exclusion(s)*

- Medical technologists and technicians (except dental health) (see 321 Medical technologists and technicians (except dental health))
- Other technical occupations in health care (see 323 Other technical occupations in health care)
- Physiotherapy assistants (see 3237 Other technical occupations in therapy and assessment)

*Main duties*

Massage therapists perform some or all of the following duties:

- Assess clients by conducting range of motion and muscle tests and propose treatment plans
- Explain procedures, risks and benefits to clients
- Administer massage techniques, treating soft tissues and joints of the body through soft tissue manipulation, relaxation techniques, hydrotherapy, trigger point therapy, joint pain and lower grade mobilizations, remedial exercise programs and client self-help programs
- Suggest home care instructions and provide information about techniques for further postural improvement and stretching, strengthening, relaxation and rehabilitative exercises
- Maintain records of treatments given
- May consult with other health care professionals such as physiotherapists, chiropractors, physicians and psychologists when developing treatment plans for clients.
- Massage therapists may be trained in various specialized massage techniques.

*Employment requirements*

- Licensing by a regulatory body is required in all provinces.
- Those operating emergency vehicles require an appropriate class of licence.

### 3237 Other technical occupations in therapy and assessment

This unit group includes workers, not elsewhere classified, who perform various technical therapy and assessment functions. Some may assist professionals such as audiologists, speech-language pathologists, ophthalmologists, physiotherapists and occupational therapists. They are employed in hospitals, clinics, extended care facilities, rehabilitation centres, educational institutions and in the private practices of the professionals they assist.

*Inclusion(s)*

- communication disorders instructor

*Illustrative example(s)*

- audiology technician
- audiometric assistant
- audiometric technician
- communicative disorders assistant
- hearing instrument practitioner
- occupational therapy assistant
- ophthalmic assistant
- ophthalmic technician
- ophthalmic technologist
- ophthalmologist assistant
- physiotherapy technician
- speech technician
- speech therapy assistant

*Exclusion(s)*

- Medical technologists and technicians (except dental health) (see 321 Medical technologists and technicians (except dental health))
- Other technical occupations in health care (see 323 Other technical occupations in health care)
- Physiotherapy helpers and chiropractic aides (see 3414 Other assisting occupations in support of health services)

*Main duties*

Hearing instrument practitioners perform some or all of the following duties:

- Examine adult clients to assess hearing loss using diagnostic evaluation and electro acoustic testing
- Recommend and dispense appropriate type of hearing instrument
- Take earmold impressions for use in the manufacture of hearing devices
- Fit, adjust and make minor modifications to hearing instruments
- Educate clients in appropriate use, care and maintenance of hearing instruments
- Perform follow-up examinations and readjustments.

Audiometric technicians perform some or all of the following duties:

- Under the supervision of audiologists, administer tests such as pure tone hearing screening, impedance tests and noise level measurements using equipment such as audiometers and sound level meters to determine hearing thresholds of patients
- Instruct patients on test procedures and record results
- Monitor, check and calibrate auditory equipment
- May take earmold impressions and fit and adjust hearing instruments.

Communicative disorders assistants and speech-language pathology assistants perform some or all of the following duties:

- Assist speech-language pathologists and audiologists during assessment of patients
- Carry out treatment programs, document results and develop materials for use with patients, under the supervision of speech-language pathologists or audiologists
- Document patient rehabilitation progress
- Check and maintain therapeutic equipment and materials.

Ophthalmic medical assistants perform some or all of the following duties:

- Operate ophthalmic testing and measuring instruments to aid ophthalmologists in assessing patients' vision
- Record test results
- Assist ophthalmologists in office surgery
- Administer eye drops, ointments and medications as directed by ophthalmologists
- Clean and maintain instruments and equipment used during examinations
- Take patients' general medical and ophthalmic history
- Perform various administrative duties.

Physiotherapy assistants and occupational therapy assistants perform some or all of the following duties:

- Under the direction of physiotherapists and/or occupational therapists, carry out treatment programs such as thermotherapy, traction, hydrotherapy and electrotherapeutic techniques to rehabilitate patients with various injuries or disabilities to maximize their ability to independently manage daily activities.

*Employment requirements*

- Audiometric technicians usually require a specialization in industrial audiometry testing.
- Communicative disorders assistants and speech-language pathology assistants require completion of a three- to four-year college program.
- Hearing instrument practitioners require completion of a three-year college diploma in a hearing instrument specialist program, including a period of supervised training.
- Licensure with a regulatory body is required for hearing instrument practitioners in all provinces except in Ontario where membership with the Association of Hearing Instrument Practitioners (AHIP) is required. Hearing instrument practitioners can prescribe and dispense hearing instruments except in Ontario where dispensing is dependent on a prescription from a physician or audiologist.
- Massage therapists usually require completion of an 18- to 24-month or 18- to 36-month program in massage therapy from an accredited school and a period of supervised practical training.
- Ophthalmic medical assistants require completion of a one- to two-year college program or a two-year hospital-based training program in ophthalmic medical technology or A minimum of one year of supervised practical training under an ophthalmologist and completion of an approved ophthalmic assistant home study program.
- Registration with a regulatory body is required in Newfoundland and Labrador, Ontario and British Columbia.

*Additional information*

- In most provinces occupational therapy assistants (OTA) and physiotherapy assistants (PTA) receive training through a single OTA/PTA program in community colleges.

## 34 Assisting occupations in support of health services

This major group comprises occupations in health that require secondary school education, either partial or complete, and additional specific training. It includes dental assistants, nurse aides, orderlies and other assisting occupations in support of health services.

Occupations in this major group are classified into the following minor group(s):

341 - Assisting occupations in support of health services

### 341 Assisting occupations in support of health services

This minor group includes dental assistants, nurse aides, orderlies, patient service associates, and other assisting occupations in support of health services. They are employed by hospitals, clinics, community health centres, nursing homes, assisted care facilities, and other health care establishments; dentists' offices, and the offices of other health care professionals; pharmacies, and optical retail stores; optical and medical pathology laboratories; and educational institutions.

#### 3411 Dental assistants

Dental assistants assist dentists, dental hygienists and dental therapists during the examination and treatment of patients and perform clerical functions. Dental assistants work in dentists' offices, community health centres, clinics and in educational institutions.

*Inclusion(s)*
- dental aide

*Illustrative example(s)*
- certified dental assistant
- certified intra-oral dental assistant
- dental assistant
- registered dental assistant

*Exclusion(s)*
- Dental hygienists and dental therapists (see 3222 Dental hygienists and dental therapists)
- Dental technologists, technicians and laboratory assistants (see 3223 Dental technologists, technicians and laboratory assistants)

*Main duties*

Dental assistants perform some or all of the following duties:
- Prepare patients for dental examination and assist the dentist during examinations and dental treatments
- Sterilize and maintain instruments and equipment
- Prepare dental instruments and filling materials
- Take and develop X-rays
- Polish teeth and clinical crowns and apply fluoride and sealant
- Take preliminary impressions for diagnostic casts
- Fabricate and place temporary crowns and restorations
- Educate patients concerning oral hygiene
- Invoice patients for dental services
- Schedule patient appointments and record dental procedures performed
- Order dental and office supplies
- May perform intra-oral duties such as remove sutures, take and record vital signs, apply desensitizing agents, topical anaesthetic, anticariogenic agents, coronal whitening and apply and remove rubber dams.

*Employment requirements*

- Completion of an eight-month to one-year college or other program in dental assistance or Completion of secondary school with on-the-job training is required.
- Occupational therapy assistants require completion of a two-year occupational therapy assistant (OTA) college program.
- Physiotherapy assistants require completion of a two- to three-year college program in physical rehabilitation therapy or A two-year physical therapy assistant (PTA) program and supervised practical training.

*Additional information*

- In some provinces there are two levels of dental assistants: Level I - chair-side assistant and Level II - intra-oral assistant. Progression from Level I to Level II is possible with education, training and licensure.

## 3413 Nurse aides, orderlies and patient service associates

Nurse aides, orderlies and patient service associates assist nurses, hospital staff and physicians in the basic care of patients. They are employed in hospitals, nursing homes, assisted care facilities for the elderly and other health care establishments.

*Inclusion(s)*

- emergency medical care attendant (EMCA)
- emergency medical responder
- first aid attendant
- medical attendant - patient transfer

*Illustrative example(s)*

- health care aide
- hospital attendant
- long term care aide
- nurse aide
- nursing attendant
- orderly
- patient care aide
- patient service associate
- personal care attendant - medical
- psychiatric aide
- resident care aide - medical

*Exclusion(s)*

- Licensed practical nurses (see 3233 Licensed practical nurses)
- Other assisting occupations in support of health services (see 3414 Other assisting occupations in support of health services)
- Personal care attendants - home care (see 4412 Home support workers, housekeepers and related occupations)

*Main duties*

Nurse aides, orderlies and patient service associates perform some or all of the following duties:

- Answer call signals; supply and empty bed pans; bathe, dress and groom patients; serve meal trays, feed or assist in feeding of patients and assist patients with menu selection; weigh, lift, turn, and position patients; shave patients prior to operations; supervise patients' exercise routines, set up and provide leisure activities for patients, accompany patients on outside recreational activities and perform other duties related to patient care and comfort
- Take patients' blood pressure, temperature and pulse; report or record fluid intake and output; observe or monitor patients' status and document patient care on charts; administer first aid in emergency situations; collect specimens such as urine, faeces or sputum; administer suppositories, colonic irrigations and enemas and perform other procedures as directed by nursing and hospital staff

- Transport patients by wheelchair or stretcher for treatment or surgery
- Carry messages, reports, requisitions and specimens between departments
- Make beds and maintain patients' rooms
- Maintain inventory of supplies
- May perform maintenance tasks such as assisting with the set-up and maintenance of traction equipment, cleaning or sterilizing equipment, maintaining and repairing equipment, and assembling, setting-up and operating job-related equipment
- May transport patients between care facilities.

*Employment requirements*

- Certification by the National Dental Assisting Examination Board is required to perform intra-oral duties in all provinces except in Quebec, where intra-oral duties are not performed by dental assistants.
- Registration with a regulatory body is required in all provinces except Quebec and Ontario.
- Some secondary school education and on-the-job training or A nursing aide or health care aide college or private institutional program, or a college nursing orderly program and supervised practical training are required.

## 3414 Other assisting occupations in support of health services

This unit group includes workers who provide services and assistance to health care professionals and other health care staff. They are employed in hospitals, medical clinics, offices of health care professionals, nursing homes, optical retail stores and laboratories, pharmacies and medical pathology laboratories.

*Illustrative example(s)*

- autopsy assistant
- blood donor clinic assistant
- cast room technician
- chiropractic assistant
- clinical laboratory helper
- morgue attendant
- ophthalmic laboratory technician - retail
- ophthalmic lens grinder
- optical laboratory assistant
- optometrist assistant
- orthopedic technologist
- rehabilitation assistant
- sterile processing technician
- therapist assistant - medical

*Exclusion(s)*

- Medical technologists and technicians (see 321 Medical technologists and technicians (except dental health))
- Operating room technicians (see 3233 Licensed practical nurses)
- Other technical occupations in therapy and assessment (see 3237 Other technical occupations in therapy and assessment)
- Pathologists' assistants (see 3212 Medical laboratory technicians and pathologists' assistants)
- Pharmacy clerks (see 6421 Retail salespersons)
- Pharmacy technicians (see 3219 Other medical technologists and technicians (except dental health))

*Main duties*

Orthopedic technologists perform some or all of the following duties:

- Assist orthopedic surgeons in the treatment of orthopedic diseases and injuries by applying and adjusting casts, splints, bandages and other orthopedic devices
- Assist in the application, maintenance and adjustment of traction equipment
- Clean and dress wounds
- Remove casts, sutures, staples and pins

- Instruct patients and their families and other health care professionals with respect to orthopedic matters.

Rehabilitation assistants perform some or all of the following duties:
- Prepare and maintain equipment and supplies
- Assist in activities for the rehabilitation of patients as directed by health care professionals
- May perform routine office functions.

Optical/ophthalmic laboratory technicians and assistants perform some or all of the following duties:
- Operate laboratory equipment to grind, cut, polish and edge lenses for eyeglasses according to prescriptions received and fit lenses into frames
- Make minor repairs for customers such as replacing frame screws or straightening frames
- Maintain and repair optical laboratory equipment or machinery.

Pharmacy aides perform some or all of the following duties:
- Help pharmacists and other pharmacy staff with packaging and labelling of pharmaceutical products
- May help in maintaining prescription records and inventories of medications and pharmaceutical products.

Sterile processing technicians perform some or all of the following duties:
- Operate and maintain sterilization equipment such as instrument washers, sonic sinks, cart washers and steam autoclaves to clean and disinfect trays, carts, linens, supplies, instrumentation and equipment for re-use according to standardized safety practices
- Reassemble equipment and assemble packs of sterile supplies and instruments for delivery to hospital departments.

Blood donor clinic assistants perform some or all of the following duties:
- Set up and dismantle equipment
- Prepare and maintain cleanliness of collection areas
- Maintain supplies
- Monitor donors throughout procedure and assist with post-donation care and donor reaction care as assigned under the supervision of a registered nurse
- Record information on donors
- Label and process donated blood.

Morgue attendants perform some or all of the following duties:
- Assist pathologists at autopsies by laying out surgical instruments
- Prepare solutions for preservation of specimens
- Transfer bodies from morgue to examining table
- Remove organs and tissue specimens, as instructed by attending pathologist, and placing them in preservative solutions
- Clean and sew up bodies for release to funeral home.

*Employment requirements*
- An appropriate class of driver's licence may be required for medical attendants.
- Completion of specialized courses such as CPR (cardiopulmonary resuscitation) and first aid is usually required.
- Health care courses or short-term college programs related to the work of medical therapy assistants, such as recreational therapy programs, are available and may be required by employers.
- Orthopedic technologists usually require completion of secondary school and Several months of on-the-job training or A college orthopedic technologist program.
- Pharmacy aides require completion of secondary school and Several months of on-the-job training.
- Registration with the Canadian Society of Orthopaedic Technologists is available and may be required by employers.

## 4 Occupations in education, law and social, community and government services

Occupations in this category are concerned with law, teaching, counselling, conducting social science research, developing government policy, and administering government and other programs. Occupations providing religious services and leadership are included in this category. These occupations usually require completion of a related post-secondary program. Individuals who work as paralegals, social service workers or educators and instructors who are not part of the elementary, secondary or post-secondary school system are usually required to complete additional formal education to progress to professional occupations.

## 40 Professional occupations in education services

This major group comprises professional occupations in education services. It includes secondary and elementary school teachers, university professors, college and other vocational instructors, post-secondary assistants and educational counsellors.

### 401 University professors and post-secondary assistants

This minor group includes university professors and lecturers, and post-secondary teaching and research assistants. They are employed by universities and colleges.

### 4011 University professors and lecturers

University professors and lecturers teach courses to undergraduate and graduate students and conduct research at universities. University professors who are heads of departments are included in this unit group.

*Inclusion(s)*

- postdoctoral fellow
- teacher - teacher's college

*Illustrative example(s)*

- botany assistant professor - university
- computer science professor - university
- engineering instructor - university
- English professor - university
- food sciences department chairperson - university
- French language professor - university
- geography department head - university
- lecturer - university
- linguistics associate professor
- physics department chairperson - university
- professor of medicine - university
- university professor

*Exclusion(s)*

- College and other vocational instructors (see 4021 College and other vocational instructors)
- Other instructors (see 4216 Other instructors)
- Post-secondary teaching and research assistants (see 4012 Post-secondary teaching and research assistants)

*Main duties*

University professors and lecturers perform some or all of the following duties:

- Teach one or more university subjects to undergraduate and graduate students
- Prepare and deliver lectures to students and conduct laboratory sessions or discussion groups
- Prepare, administer and grade examinations, laboratory assignments and reports
- Advise students on course and academic matters and career decisions
- Direct research programs of graduate students and advise on research matters
- Conduct research in field of specialization and publish findings in scholarly journals or books
- May serve on faculty committees dealing with such matters as curriculum planning and degree requirements, and perform a variety of administrative duties
- May represent their universities as speakers and guest lecturers
- May provide professional consultative services to government, industry and private individuals.

- University professors and lecturers specialize in a particular subject matter such as biology, chemistry, anatomy, sociology, business administration or law.

*Employment requirements*

- A doctoral degree in the field of specialization is required for university professors.
- Completion of secondary school and several months of on-the-job training are usually required for other assisting occupations in this unit group.
- Sterile processing technicians require completion of secondary school and A six- to nine-month sterile processing college program.

*Additional information*

- Progression to senior positions within a department, faculty or university is possible with experience.
- University professors who are also practitioners in their field of specialization must have the appropriate licences or certification.

## 4012 Post-secondary teaching and research assistants

Post-secondary teaching and research assistants assist university professors, community college and CEGEP teachers and other faculty members in teaching and research activities at universities and colleges.

*Inclusion(s)*

- tutor - post-secondary teaching assistant

*Illustrative example(s)*

- college laboratory assistant
- college teaching assistant
- graduate assistant - university
- post-secondary research assistant
- university research assistant

*Exclusion(s)*

- Elementary and secondary school teacher assistants (see 4413 Elementary and secondary school teacher assistants)
- Other instructors (see 4216 Other instructors)

*Main duties*

Post-secondary teaching and research assistants perform some or all of the following duties:

- Post-secondary teaching assistants
- Organize reference materials, visual aids and other materials as required by university professors or college teachers for lectures
- Conduct seminars, discussion groups and laboratory sessions to supplement lectures
- Assist in the preparation and administration of examinations
- Grade examinations, term papers and laboratory reports.
- Research assistants
- Conduct literature reviews, surveys, laboratory experiments and other research for use in scholarly publications
- Compile research results and assist professors in the analysis of results and the preparation of journal articles or papers.
- Post-secondary teaching and research assistants specialize in a subject matter based on their field of study.

*Employment requirements*

- A master's degree in the field of specialization is required for university lecturers.

## 402 College and other vocational instructors

This minor group includes instructors who teach at community colleges, CEGEPs, agricultural colleges, technical and vocational institutes, language schools and other college level schools. This unit group also includes trainers who are employed by private training establishments, companies, community agencies and governments to deliver internal training or development courses.

### 4021 College and other vocational instructors

This unit group includes instructors who teach applied arts, academic, technical and vocational subjects to students at community colleges, CEGEPs, agricultural colleges, technical and vocational institutes, language schools and other college level schools. This unit group also includes trainers who are employed by private training establishments, companies, community agencies and governments to deliver internal training or development courses. College teachers who are heads of departments are included in this group.

*Illustrative example(s)*

- CEGEP teacher
- college teacher
- commercial art instructor
- community college teacher
- company trainer
- computer training instructor
- department chairperson - college
- department head - CEGEP
- firefighting instructor
- instructor - technology institute
- language school instructor
- lecturer - college
- legal assistant program teacher
- teacher - institute of technology
- training officer - company
- vocational institute teacher

*Exclusion(s)*

- Administrators - post-secondary education and vocational training (see 0421 Administrators - post-secondary education and vocational training)
- Instructors teaching non-academic or non-vocational courses (see 4216 Other instructors)
- Secondary school teachers (see 4031 Secondary school teachers)
- University professors and lecturers (see 4011 University professors and lecturers)

*Main duties*

College and other vocational instructors perform some or all of the following duties:

- Teach students using a systematic plan of lectures, demonstrations, discussion groups, laboratory work, shop sessions, seminars, case studies, field assignments and independent or group projects
- Develop curriculum and prepare teaching materials and outlines for courses
- Prepare, administer and mark tests and papers to evaluate students' progress
- Advise students on program curricula and career decisions
- Provide individualized tutorial or remedial instruction to students who require it
- Supervise independent or group projects, field placements, laboratory work or hands-on training
- Supervise teaching assistants
- May provide consultation services to government, business and other organizations
- May serve on committees concerned with matters such as budgets, curriculum revision, and course and diploma requirements.
- These instructors specialize in particular fields or areas of study such as visual arts, dental hygiene, welding, engineering technology, policing, computer software, management and early childhood education.

*Employment requirements*

- A bachelor's degree, a college diploma or demonstrated expertise in the field of instruction is required.
- A master's degree in the field of instruction may be required.
- Enrolment in, or completion of, a university or college program is required.
- Licences or professional certification may be required for professors teaching future practitioners in certain professionally regulated fields, such as medicine, engineering, architecture, psychology or law.

*Additional information*

- Progression to administrative positions in post-secondary education is possible with experience.

## 403 Secondary and elementary school teachers and educational counsellors

This minor group includes secondary and elementary school teachers, kindergarten teachers, and educational counsellors. They are employed by public and private secondary and elementary schools, school boards, and post-secondary educational institutions.

### 4031 Secondary school teachers

Secondary school teachers prepare and teach academic, technical, vocational or specialized subjects at public and private secondary schools. Secondary school teachers who are heads of departments are included in this unit group.

*Illustrative example(s)*

- adult education teacher - secondary school
- biology teacher - secondary school
- commerce teacher - secondary school
- English as a second language (ESL) high school teacher
- English teacher - secondary school
- French as a second language teacher - secondary school
- history teacher - secondary school
- librarian-teacher - high school
- remedial teacher - secondary school
- secondary school department head
- secondary school teacher
- special education teacher - secondary school
- supply high school teacher
- trades instructor - secondary school
- vocational teacher - secondary school

*Exclusion(s)*

- College and other vocational instructors (see 4021 College and other vocational instructors)
- Educational counsellors (see 4033 Educational counsellors)
- Elementary and secondary school teacher assistants (see 4413 Elementary and secondary school teacher assistants)
- Elementary school and kindergarten teachers (see 4032 Elementary school and kindergarten teachers)
- Junior high school teachers (see 4032 Elementary school and kindergarten teachers)
- Psychoeducators (see 4153 Family, marriage and other related counsellors)
- School principals and administrators of elementary and secondary education (see 0422 School principals and administrators of elementary and secondary education)
- Secondary school librarians (see 5211 Library and public archive technicians)
- Teachers of non-academic courses (see 4216 Other instructors)
- Teachers teaching life skills courses to persons with disabilities (see 4215 Instructors of persons with disabilities)

*Main duties*

Secondary school teachers perform some or all of the following duties:

- Prepare subject material for presentation to students according to an approved curriculum
- Teach students using a systematic plan of lectures, discussions, audio-visual presentations, and laboratory, shop and field studies
- Assign and correct homework
- Prepare, administer and correct tests
- Evaluate progress, determine individual needs of students and discuss results with parents and school officials
- Prepare and implement remedial programs for students requiring extra help
- Participate in staff meetings, educational conferences and teacher training workshops
- May teach and evaluate students through distance or online courses
- May advise students on course selection and on vocational and personal matters
- May supervise student teachers.
- Secondary school teachers may specialize in such areas as mathematics, English, French, special education or second language instruction. Secondary school teachers of vocational and trades subjects may specialize in areas such as hairdressing or auto mechanics.

*Employment requirements*

- A certificate, diploma or degree in adult education may be required.
- Department heads usually require several years of teaching experience.
- For instructors of trades, completion of apprenticeship training and industry or trade certification are required. Additional courses in teaching or a provincial teaching certificate may be required.
- Instructors of trades in Quebec require completion of an apprenticeship training program and industry or trade certification.
- Teachers of academic subjects require a bachelor's degree in education which is often preceded by a bachelor's degree in the arts or sciences.
- Teachers of vocational or technical subjects require a bachelor's degree in education which is usually preceded by specialized training or experience in the subject.
- To specialize in special education or English or French as a second language, additional training is required.

*Additional information*

- In Quebec, trades training programs are usually offered in the secondary school system.
- Progression to vice-principal or other administrative positions in the education system is possible with experience.

## 4032 Elementary school and kindergarten teachers

Elementary school and kindergarten teachers teach basic subjects such as reading, writing and arithmetic or specialized subjects such as English or French as a second language at public and private elementary schools.

*Illustrative example(s)*

- English as a second language elementary school teacher
- French as a second language elementary school teacher
- French immersion teacher - elementary school
- kindergarten teacher
- primary school teacher
- remedial teacher - elementary school
- special education teacher - elementary school
- special education teacher - primary school
- supply teacher - elementary school
- teacher-librarian - elementary school

*Exclusion(s)*

- Early childhood educators and assistants (see 4214 Early childhood educators and assistants)
- Elementary and secondary school teacher assistants (see 4413 Elementary and secondary school teacher assistants)
- Elementary school librarians (see 5211 Library and public archive technicians)

- Psychoeducators (see 4153 Family, marriage and other related counsellors)
- School principals and administrators of elementary and secondary education (see 0422 School principals and administrators of elementary and secondary education)
- Secondary school teachers (see 4031 Secondary school teachers)
- Teachers of persons with developmental disabilities (see 4215 Instructors of persons with disabilities)

*Main duties*

Elementary school and kindergarten teachers perform some or all of the following duties:

- Prepare courses for presentation to students according to approved curriculum
- Teach students using a systematic plan of lessons, discussions, audio-visual presentations and field trips
- Lead students in activities to promote their physical, mental and social development and their school readiness
- Assign and correct homework
- Prepare, administer and correct tests
- Evaluate the progress of students and discuss results with students, parents and school officials
- Identify children's individual learning needs
- Prepare and implement remedial programs for students requiring extra help
- Participate in staff meetings, educational conferences and teacher training workshops
- May supervise teachers' aides and student teachers.
- Elementary school and kindergarten teachers may specialize in such areas as special education or second language instruction.

*Employment requirements*

- A bachelor's degree in child development may be required.
- A bachelor's degree in education is required.
- A provincial teaching certificate is required.
- Additional training is required to specialize in special education or second language instruction.
- Membership in a provincial or territorial teachers' association or federation may be required.

*Additional information*

- Progression to education consultant or school principal is possible with experience.

## 4033 Educational counsellors

Educational counsellors advise current and prospective students on educational issues, career planning and personal development, and co-ordinate the provision of counselling services to students, parents, teachers, faculty and staff. They are employed by school boards and post-secondary educational institutions.

*Inclusion(s)*

- co-op officer
- student employment services co-ordinator

*Illustrative example(s)*

- academic counsellor
- career counsellor - education
- school counsellor
- student services counsellor

*Exclusion(s)*

- Employment counsellors (see 4156 Employment counsellors)
- Family, marriage and other related counsellors (see 4153 Family, marriage and other related counsellors)
- School psychologists (see 4151 Psychologists)
- Secondary school teachers (see 4031 Secondary school teachers)
- Social workers (see 4152 Social workers)

*Main duties*

Educational counsellors perform some or all of the following duties:

- Counsel students regarding educational issues such as course and program selection, time tables and scheduling, school adjustment, attendance problems and study skills
- Counsel students regarding career or vocational issues including career exploration and planning, résumé preparation, job interview skills and job search strategies and make available to them a wide range of educational and occupational information
- Co-ordinate co-op and school-to-work transition programs, and the provision of counselling and information services, such as career information, professional development sessions and exchanges with other educational institutions, to students, parents, teachers, faculty and staff
- Consult with teachers and parents or faculty and other professionals such as psychologists, speech therapists and social workers regarding various issues and concerns, and with administrators and community agencies regarding programs and referrals
- Administer and interpret standardized intelligence, personality, vocational, aptitude and interest tests
- Develop and co-ordinate study skills groups or workshops in high schools, colleges and universities on topics such as note-taking, test or examination anxiety and preparation strategies and time management skills
- Visit colleges and secondary schools to provide academic information to prospective students, their parents and educational counsellors
- Co-ordinate or participate in student orientation programs in colleges or universities
- Arrange for employers to recruit graduating college and university students, and students for co-op education work terms
- Counsel students regarding personal and social issues such as substance abuse, depression, sexuality, eating disorders, anxiety, self-esteem, family problems, relationship and interpersonal skills and anger management
- Counsel students in crisis situations such as dealing with the death of a friend or family member, suicidal tendencies and abuse situations
- May supervise peer counselling programs in school settings
- May supervise field experience for graduate students in counselling
- May teach regular classes.

*Employment requirements*

- A bachelor's degree in counselling, career development, education or social sciences is required for counsellors in school settings.
- A master's degree in counselling psychology or a related field such as educational psychology, developmental psychology or social work is usually required.
- A provincial teaching certificate is required. Additional certification is required to teach English or French as a second language.
- Educational counsellors in post-secondary settings require an undergraduate degree and may require a graduate degree. A particular academic specialization may also be required.
- In Quebec, membership in l'Ordre des conseillers et conseillères d'orientation et des psychoéducateurs et psychoéducatrices du Québec is mandatory to use the title "counsellor".
- Membership in a provincial or territorial teachers' association or federation is usually required.

*Additional information*

- Educational counsellors in colleges, universities and other settings may specialize in academic, career or personal issues counselling.
- Elementary school counsellors generally provide more social and personal counselling whereas academic counselling is provided more by high school counsellors.

## 41 Professional occupations in law and social, community and government services

This major group comprises professional occupations in law and social, community and government services. It includes judges, lawyers, Quebec notaries, psychologists, social workers and counsellors; as well as policy researchers, consultants and program officers in a variety of fields; and certain other professional occupations in the social sciences.

## 411 Judges, lawyers and Quebec notaries

This minor group includes judges, lawyers and Quebec notaries. Judges preside over federal and provincial courts. Lawyers are employed in law firms and prosecutor's offices. Quebec notaries are employed in notary offices. Both lawyers and Quebec notaries are employed by federal, provincial and municipal governments and various business establishments; or they may be self-employed.

### 4111 Judges

Judges adjudicate civil and criminal cases and administer justice in courts of law. Judges preside over federal and provincial courts.

*Illustrative example(s)*

- chief justice
- county court judge
- Court of Queen's Bench justice
- district court judge
- family court judge
- federal trial court justice
- provincial court of appeal justice
- small claims court judge
- superior court justice
- Supreme Court justice

*Exclusion(s)*

- Administrative tribunal judges (see 0411 Government managers - health and social policy development and program administration)
- Citizenship court judges (see 1227 Court officers and justices of the peace)
- Justices of the peace (see 1227 Court officers and justices of the peace)

*Main duties*

Judges perform some or all of the following duties:

- Preside over courts of law, interpret and enforce rules of procedure and make rulings regarding the admissibility of evidence
- Instruct the jury on laws that are applicable to the case
- Weigh and consider evidence in non-jury trials and decide legal guilt or innocence or degree of liability of the accused or defendant
- Pass sentence on persons convicted in criminal cases and determine damages or other appropriate remedy in civil cases
- Grant divorces and divide assets between spouses
- Determine custody of children between contesting parents and other guardians
- Enforce court orders for access or support
- Supervise other judges and court officers.
- Judges may specialize in particular areas of law such as civil, criminal or family law.

*Employment requirements*

- A teacher's certificate in the province of employment and some teaching experience is usually required for counsellors in school settings.
- Educational counsellors in colleges and universities may require licensing from a provincial regulatory body governing psychologists, educational counsellors or social workers.
- Extensive experience as a lawyer or as a professor of law with continuous membership in the bar association is usually required.
- Membership in good standing with a provincial or territorial law society or bar association is required.

## 4112 Lawyers and Quebec notaries

Lawyers and Quebec notaries advise clients on legal matters, represent clients before administration boards and draw up legal documents such as contracts and wills. Lawyers also plead cases, represent clients before tribunals and conduct prosecutions in courts of law. Lawyers are employed in law firms and prosecutor's offices. Quebec notaries are employed in notary offices. Both lawyers and Quebec notaries are employed by federal, provincial and municipal governments and various business establishments or they may be self-employed. Articling students are included in this unit group.

*Inclusion(s)*
- judicial assistant - Supreme Court

*Illustrative example(s)*
- articling law student
- corporate counsel
- Crown Attorney
- law partner
- lawyer
- legal advisor
- legislative counsel
- notary (Quebec)
- prosecutor
- solicitor

*Exclusion(s)*
- Legal department directors (see 0114 Other administrative services managers)
- Legal firm managers (see 0125 Other business services managers)
- Notaries public and trademark agents who are not lawyers (see 4211 Paralegal and related occupations)
- Patent agents who are not lawyers or Quebec notaries (see 4161 Natural and applied science policy researchers, consultants and program officers)

*Main duties*

Lawyers and Quebec notaries perform some or all of the following duties:
- Advise clients of their legal rights and all matters related to law
- Research legal precedents and gather evidence
- Plead clients' cases before courts of law, tribunals and boards (lawyers only)
- Draw up legal documents such as real estate transactions, wills, divorces and contracts, and prepare statements of legal opinions
- Negotiate settlements of civil disputes (lawyers only)
- Perform administrative and management functions related to the practice of law
- May act as mediator, conciliator or arbitrator
- May act as executor, trustee or guardian in estate and family law matters.
- Lawyers and Quebec notaries may specialize in specific areas of the law such as criminal law (lawyers only), corporate law, contract law, taxation law, administrative law, international law, commercial law, real estate law, family and estate law, intellectual property law and labour law.

*Employment requirements*
- Judges are appointed by federal or provincial cabinets.
- Lawyers
- Licensing by the provincial or territorial law society is required.
- Notaries (Quebec)
- Those appointed to more senior positions in a court, such as chief justice, usually have experience as judges in that court.
- Two to three years of undergraduate studies or, in Quebec, completion of a college program and A bachelor's degree from a recognized law school and Successful completion of the bar examination and completion of a period of articling are required.

*Additional information*

- Lawyers wishing to practise in another province or territory may be required to pass examinations set by the provincial or territorial law society.

## 415 Social and community service professionals

This minor group includes psychologists, social workers, counsellors, probation and parole officers and those in professional occupations in religion. They work in private practice; and are employed by mental health, health care and rehabilitation facilities; correctional facilities, community service, social service, and child welfare organizations; schools, school boards, and universities; counselling centres, group homes, family therapy centres; churches, synagogues, temples and other places of worship; employee assistance programs, human resource departments, and employment service organizations; consulting, and other companies; Aboriginal band councils, and federal and provincial governments; and government and private research agencies.

### 4151 Psychologists

Psychologists assess and diagnose behavioural, emotional and cognitive disorders, counsel clients, provide therapy, conduct research and apply theory relating to behaviour and mental processes. Psychologists help clients work toward the maintenance and enhancement of psychological, physical, intellectual, emotional, social and interpersonal functioning. Psychologists work in private practice or in clinics, correctional facilities, hospitals, mental health facilities, rehabilitation centres, community service organizations, businesses, schools and universities, and in government and private research agencies.

*Illustrative example(s)*

- clinical psychologist
- experimental psychologist
- psychological associate
- psychologist
- research psychologist

*Exclusion(s)*

- Family, marriage and other related counsellors (see 4153 Family, marriage and other related counsellors)
- Psychiatrists (see 3111 Specialist physicians)
- Psychologists who teach at universities (see 4011 University professors and lecturers)
- Psychology assistants (except university) (see 4164 Social policy researchers, consultants and program officers)
- Psychology research assistants (except university) (see 1254 Statistical officers and related research support occupations)
- Psychometrists (see 4169 Other professional occupations in social science, n.e.c.)

*Main duties*

Psychologists perform some or all of the following duties:

- Examine and assess behaviour, diagnose behavioural, emotional and cognitive disorders, counsel clients and provide therapy
- Help clients manage physical illness and disorders
- Counsel individuals and groups to achieve more effective personal, social and vocational development and adjustment, and offer mediation services
- Use standard psychological tests for assessment
- Plan intervention programs and conduct program evaluation
- Apply psychological theory and principles regarding behaviour and mental processes such as learning, language development, memory and perception to develop treatment programs
- Formulate hypotheses and experimental designs, review literature, conduct studies and publish research papers, educational texts and articles
- Deliver presentations at conferences, workshops or symposia
- Provide consultation services to government and other organizations.

- Psychologists may specialize in applied psychology or experimental research. Sub-specialties include behavioural psychology, child psychology, cognitive psychology, developmental psychology, educational psychology, industrial psychology, neuropsychology, social psychology or sports psychology.

*Employment requirements*

- A bachelor's degree from a recognized law school and a Diploma of Notarial Law (D.D.N.) or A master's degree of law with specialization in notarial law and A 32-week vocational training program are required.
- A doctoral degree in psychology is required in order to use the designation "Psychologist" in Prince Edward Island, Quebec, Ontario, Manitoba and British Columbia.
- A master's degree in psychology is required for the designation "Psychologist" in Newfoundland and Labrador, Nova Scotia, New Brunswick, Saskatchewan, Alberta, the Northwest Territories and Nunavut.
- A master's degree in psychology is required in order to use the designation "Psychological Associate" in Prince Edward Island, Ontario, Manitoba and British Columbia.
- A period of supervised practical experience is required in most jurisdictions.
- Oral examinations and board interviews are required in some provinces.
- Registration with a regulatory body is required in all provinces, the Northwest Territories and Nunavut.
- Registration with the Corporation of Notaries is required.
- Successful completion of the written Examination for Professional Practice in Psychology (EPPP) is required in most provinces.

*Additional information*

- Psychological associates may be granted permission by provincial regulatory authorities to perform duties normally restricted to psychologists, specifically diagnosing psychological disorders and communicating diagnoses to clients.

## 4152 Social workers

Social workers help individuals, couples, families, groups, communities and organizations develop the skills and resources they need to enhance social functioning and provide counselling, therapy and referral to other supportive social services. Social workers also respond to other social needs and issues such as unemployment, racism and poverty. They are employed by hospitals, school boards, social service agencies, child welfare organizations, correctional facilities, community agencies, employee assistance programs and Aboriginal band councils, or they may work in private practice.

*Inclusion(s)*

- children's aid investigator

*Illustrative example(s)*

- co-ordinator of social work
- medical social worker
- psychiatric social worker
- social work supervisor
- social worker

*Exclusion(s)*

- Educational counsellors (see 4033 Educational counsellors)
- Family, marriage and other related counsellors (see 4153 Family, marriage and other related counsellors)
- Managers in social, community and correctional services (see 0423 Managers in social, community and correctional services)
- Social and community service workers (see 4212 Social and community service workers)

*Main duties*

Social workers perform some or all of the following duties:

- Interview clients individually, in families, or in groups, to assess their situation and problems and determine the types of services required

- Provide counsel and therapy to assist clients in developing skills to deal with and resolve their social and personal problems
- Plan programs of assistance for clients including referral to agencies that provide financial assistance, legal aid, housing, medical treatment and other services
- Investigate cases of child abuse or neglect and take authorized protective action when necessary
- Serve as members on interdisciplinary teams of professionals working with client groups
- Act as advocates for client groups in the community, lobby for solutions to problems directly affecting client groups and develop prevention and intervention programs to meet community needs
- Develop or advise on social policy legislation, conduct social research and assist in community development
- Provide mediation services and psychosocial assessments
- Evaluate the effectiveness of counselling and social programs
- May provide public education and consultation to professionals or groups regarding counselling services, issues and methods
- May supervise other social workers.
- Social workers may specialize in fields of practice such as child welfare, family services, corrections, gerontology or addictions.

*Employment requirements*

- A bachelor's degree in social work is required in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, British Columbia, the Northwest Territories and Nunavut.
- In Alberta, a bachelor's degree or diploma in social work is required.
- Membership in the provincial professional association for psychologists is mandatory in all provinces, the Northwest Territories and Nunavut.
- Psychologists can become specialized in a particular area through training and experience.
- Registration with a provincial governing body is mandatory to practise as a social worker in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Alberta and British Columbia.
- Successful completion of provincial written and oral examinations may be required.
- Supervised practical experience is usually required.

## 4153 Family, marriage and other related counsellors

Family, marriage and other related counsellors assist individuals and groups of clients to identify, understand and overcome personal problems and achieve personal objectives. They are employed by counselling centres, social service agencies, group homes, government agencies, family therapy centres, and health care and rehabilitation facilities, or they may work in private practice.

*Inclusion(s)*

- behavioural consultant
- disability consultant
- place holder
- play therapist
- psychoeducational consultant
- psychoeducator

*Illustrative example(s)*

- addictions counsellor
- bereavement counsellor
- child and youth counsellor
- family counsellor
- marriage counsellor
- registered clinical counsellor
- registered marriage and family therapist
- rehabilitation counsellor
- sex therapist

- vocational rehabilitation counsellor

*Exclusion(s)*

- Educational counsellors (see 4033 Educational counsellors)
- Employment counsellors (see 4156 Employment counsellors)
- Managers in social, community and correctional services (see 0423 Managers in social, community and correctional services)
- Social and community service workers (see 4212 Social and community service workers)
- Social workers (see 4152 Social workers)

*Main duties*

Family, marriage and other related counsellors perform some or all of the following duties:

- Interview clients, prepare case histories and assess problems
- Conduct vocational testing and psychometric assessment
- Develop and implement counselling and intervention programs to assist clients in determining goals and means of attaining them
- Counsel clients, provide therapy and mediation services, and facilitate group sessions
- Liaise with community agencies or partners, and identify additional or alternative services and provide referrals
- Evaluate the effectiveness of counselling programs and interventions, and clients' progress in resolving identified problems and movement toward defined objectives
- Follow up on results of counselling programs and clients' adjustments
- Prepare assessment, progress, follow-up and court reports
- May supervise other counsellors, social service staff and assistants
- May provide public education and consultation to other professionals or groups regarding counselling services, issues and methods
- May provide witness testimony in court proceedings
- May conduct research, publish research papers, educational texts and articles and deliver presentations at conferences.
- May participate in fundraising activities.
- Family, marriage and other related counsellors often specialize in dealing with a specific client group such as injured workers, or with specific problems, such as drug and alcohol addiction, marital difficulties or behavioural disorders.

*Employment requirements*

- A master's degree in the field of counselling, mental health or a related social service discipline is usually required.
- An undergraduate degree or college diploma in a social science is required for certain areas of counselling.
- Membership in a provincial association of social workers is usually required.
- Membership with a provincial association for marriage and family therapists or clinical counsellors is required to use the title "Registered Marriage and Family Therapist" or "Registered Clinical Counsellor", and in Quebec, to use the title "marriage and family therapist (MFT)", "family therapist (FT)" or "marriage therapist (MT)". Membership with a provincial association may be required by some employers.
- Registration with a regulatory body is required in Nova Scotia, New Brunswick, Ontario and Quebec.
- Use of the titles "Social Worker" and "Registered Social Worker" is regulated in all provinces.

*Additional information*

- Counsellors usually become specialized in a particular area through training and experience.
- Progression to social service management positions is possible with additional training and experience.

## 4154 Professional occupations in religion

Professionals in this unit group conduct religious services, administer the rites of a religious faith or denomination, provide spiritual and moral guidance and perform other functions associated with the practice of a religion. They perform these duties in churches, synagogues, temples or other places of worship. They may also work in other institutions such as schools, hospitals and prisons.

*Illustrative example(s)*
- archbishop
- bishop
- cardinal
- chaplain
- evangelist
- granthi
- imam
- minister
- moderator - religion
- pastor
- priest
- rabbi

*Exclusion(s)*
- Other religious occupations (see 4217 Other religious occupations)

*Main duties*

Professionals in this unit group perform some or all of the following duties:
- Conduct regular religious services
- Administer rites of faiths such as marriages and funerals
- Pray and promote spirituality by delivering sermons and other talks
- Provide spiritual and moral guidance to members of a religious faith
- Supervise, plan and administer programs of religious education
- May participate in humanitarian endeavours and delivery of social services and welfare activities
- May share in the administrative and financial operation of a religious community
- May provide consultation services to government and other organizations.

*Employment requirements*
- In Quebec, a master's degree in psychoeducation is required to practise as a psycho-educator.
- Registered marriage and family therapists and registered clinical counsellors must meet strict criteria involving post-graduate education and a period of supervised clinical work with clients.

*Additional information*
- Progression to senior positions included in this unit group, within a religious order, is possible with experience.

## 4155 Probation and parole officers and related occupations

Probation officers monitor the conduct and behaviour of criminal offenders serving probation terms. Parole officers monitor the reintegration of criminal offenders serving the remainder of sentences while conditionally released into the community on parole. Classification officers assess inmates and develop rehabilitation programs for criminal offenders who are incarcerated in correctional facilities. They are employed by federal and provincial governments and work in the community and in correctional facilities.

*Inclusion(s)*
- social assistance program officer - corrections
- welfare program officer - corrections
- youth worker - corrections

*Illustrative example(s)*

- case manager - corrections
- classification officer - correctional institution
- parole officer
- probation officer

*Exclusion(s)*

- Correctional service officers (see 4422 Correctional service officers)
- Correctional services managers (see 0423 Managers in social, community and correctional services)
- Social and community service workers (see 4212 Social and community service workers)
- Social workers (see 4152 Social workers)

*Main duties*

Probation and parole officers perform some or all of the following duties:

- Interview offenders, police, family, friends, school authorities and employers to prepare pre-sentence reports and assess offenders' prospects for successful reintegration into the community
- Plan rehabilitation programs with offenders, establishing rules of conduct, goals and objectives
- Refer offenders to community and social service programs, as required
- Supervise the terms of a probation order and attend court
- Interview probationers and parolees regularly to evaluate their progress in accomplishing goals and maintaining the terms specified in their probation contracts and rehabilitation plans
- Recommend remedial action or initiate court action when terms of probation or parole are violated
- May perform administrative duties and supervise support staff
- May participate in policy development.

Classification officers, correctional institutions, perform some or all of the following duties:

- Interview inmates to assess adjustment problems and develop suitable rehabilitation programs
- Prepare classification reports recommending type of incarceration and types of interventions considered most beneficial for the rehabilitation of the inmates
- Plan rehabilitation programs with offenders, identifying needs and setting out goals and objectives
- Liaise with the inmates' families and contacts in the community to maintain established bonds outside of the institution
- Advise and counsel inmates regarding their problems and evaluate their progress.

*Employment requirements*

- A period of study with a senior minister is usually required.
- Completion of college, university or other program in religious studies is usually required. Some occupations in this unit group may require a master's of divinity or theology.

*Additional information*

- Progression to correctional service management positions is possible with additional training or experience.

## 4156 Employment counsellors

Employment counsellors and career development practitioners provide assistance and information to job seeker clients on all aspects of employment search and career planning. They also provide advice and information to employer clients regarding employment issues and human resources. Employment counsellors and career development practitioners are employed by human resource departments of establishments, employment service organizations, consulting firms, correctional facilities and by federal and provincial governments. Supervisors of employment counsellors are included in this unit group.

*Inclusion(s)*

- Aboriginal employment developer
- employment consultant
- place holder
- relocation counsellor

- workforce development officer

*Illustrative example(s)*
- career counsellor (except education)
- career development counsellor
- employment counsellor
- outplacement counsellor
- relocation consultant

*Exclusion(s)*
- Educational counsellors (see 4033 Educational counsellors)
- Employment insurance officers (see 1228 Employment insurance, immigration, border services and revenue officers)
- Human resources and recruitment officers (see 1223 Human resources and recruitment officers)
- Job coaches for persons with disabilities (see 4215 Instructors of persons with disabilities)
- Vocational rehabilitation counsellors (see 4153 Family, marriage and other related counsellors)

*Main duties*

Employment counsellors and career development practitioners perform some or all of the following duties:
- Interview clients to obtain employment history, educational background and career goals
- Identify barriers to employment and assist clients with such matters as job readiness skills, job search strategies, writing résumés and preparing for job interviews
- Assess need for assistance such as rehabilitation, financial aid or further training and refer clients to the appropriate services
- Provide established workers with information and strategies for maintaining a job or moving within an organization, dealing with job dissatisfaction, making mid-career changes and adjusting to workplace transitions
- Collect labour market information for clients regarding job openings, entry and skill requirements and other occupational information
- Advise employers on human resource and other employment-related issues
- Provide consulting services to community groups and agencies, businesses, industry and other organizations involved in providing community-based career planning support or resources
- May administer and interpret tests designed to determine the interests, aptitudes and abilities of clients.

*Employment requirements*
- A bachelor's degree in social work, criminology, psychology, sociology or other related social science discipline is required.
- A bachelor's degree or college diploma in employment counselling, career development or in a related field, such as human resources development, psychology, education or social services is required.
- A master's degree in social work, criminology, psychology or other related social science discipline may be required.

*Additional information*
- Mobility to positions in personnel or training is possible.
- Progression to supervisory positions is possible through experience.

## 416 Policy and program researchers, consultants and officers

This minor group includes policy researchers, analysts, consultants, and program officers in a variety of fields and certain other professional occupations in social science not elsewhere classified. They are employed by federal, provincial and municipal governments, and government agencies; universities, educational institutions, and school boards; research, international, non-government, and environmental and conservation organizations; consulting, marketing, and investment companies; banks; unions, and professional and business associations; recreation, sports, and fitness facilities; hospitals, health care facilities, retirement homes, and community centres and agencies; and in industry and manufacturing; or they may be self-employed.

## 4161 Natural and applied science policy researchers, consultants and program officers

Natural and applied science policy researchers, consultants and program officers conduct research, prepare reports, provide consultation and advice and administer programs in a variety of areas related to the natural and applied sciences. They are employed by federal, provincial and municipal governments, computer and office furniture manufacturers, educational institutions, research organizations, consulting firms, environmental and conservation organizations, or they may be self-employed.

*Inclusion(s)*

- environmental education consultant
- patent agent
- patent searcher

*Illustrative example(s)*

- certified ergonomist
- emergency management analyst
- emergency preparedness planner
- energy policy analyst
- environmental impact analyst
- environmental issues lobbyist
- environmental program development supervisor
- ergonomics specialist
- fisheries analyst
- industrial hygienist
- natural and applied sciences program officer
- natural resources policy analyst
- occupational hygienist
- recycling program co-ordinator
- scientific consultant
- technology transfer officer
- transportation safety analyst

*Exclusion(s)*

- Architecture and science managers (see 0212 Architecture and science managers)
- Health policy researchers, consultants and program officers (see 4165 Health policy researchers, consultants and program officers)
- Life science professionals (see 212 Life science professionals)
- Other engineers (see 214 Other engineers)
- Patent lawyers (see 4112 Lawyers and Quebec notaries)
- Physical science professionals (see 211 Physical science professionals)
- Professional occupations in engineering (see 213 Civil, mechanical, electrical and chemical engineers)

*Main duties*

Ergonomists or human factors specialists perform some or all of the following duties:

- Conduct research and advise on, and intervene in the physical, social and psychological interrelationships between persons, their equipment and working or living environments to ensure that the design, configuration and use of equipment, procedures and environmental conditions maximize safety, productivity and comfort.

Occupational or industrial hygienists perform some or all of the following duties:

- Study, evaluate and control physical, chemical and biological hazards and stresses in the workplace.
- Report and document investigations and conclusions
- Suggest changes to work environments and processes
- Provide information to workers and managers or employers on methods to reduce the risk of injury or illness from specific occupational hazards
- May teach safe work procedures, participate in emergency response planning, testify at hearings and report findings at scientific conferences or in scientific journals.

Patent agents perform some or all of the following duties:
- Advise clients on elements of patent law and on the patentability of inventions
- Conduct patent searches
- Prepare patent applications
- Represent clients before the patent office.

Technology transfer officers perform some or all of the following duties:
- Transfer and integrate new technologies, usually from university or government research and development environments, to commercial and industrial applications and ensure the protection of intellectual property of researchers and developers.

Science policy and program officers perform some or all of the following duties:
- Conduct research and advise on policies or develop or administer programs related to transportation, emergency preparedness, communications, natural resources, agriculture, the environment, traditional and alternative energy technologies, land use, recycling and other scientific fields
- Promote public awareness and education on issues such as utilization of natural resources, the environment, and reprocessing and reduction of waste.

*Employment requirements*
- A bachelor's degree or college diploma in a related scientific or technical discipline is usually required for occupations in this unit group.
- A master's degree in a related scientific discipline may be required.
- A master's degree in counselling psychology or a related field such as educational psychology, developmental psychology or social work may be required.
- Certification through the Canadian College of Certified Professional Ergonomists is required to use the title "Canadian Certified Professional Ergonomist (CCPE)". Membership with the Association of Canadian Ergonomists may be required.
- In Quebec, membership in a professional association is mandatory to use the title "counsellor".
- Occupational hygienists may require certification by the Canadian Registration Board of Occupational Hygienists.

*Additional information*
- Progression to supervisory or managerial positions in these fields is possible with experience.

## 4162 Economists and economic policy researchers and analysts

Economists and economic policy researchers and analysts conduct research, monitor data, analyze information and prepare reports and plans to resolve economic and business problems and develop models to analyze, explain and forecast economic behaviour and patterns. They advise on matters such as finance, fiscal and monetary policy, international trade, agricultural and natural resource commodities and labour and industrial markets. They are employed by government departments and agencies and throughout the private sector in associations, unions, research organizations, banks and investment firms.

*Inclusion(s)*
- business analyst - economics
- consumer advisor - economics
- salary analyst - economic policy
- wage analyst - economic policy

*Illustrative example(s)*
- agricultural economist
- economic advisor
- economic analyst
- economic policy analyst
- economist
- energy economist
- financial economist

- industrial economist
- international trade economist
- investment economist
- labour economist
- natural resources economist
- tax economist
- trade economist

*Exclusion(s)*

- Business development officers and marketing researchers and consultants (see 4163 Business development officers and marketing researchers and consultants)
- Economists who teach at universities (see 4011 University professors and lecturers)
- Financial and investment analysts (see 1112 Financial and investment analysts)
- Government managers - economic analysis, policy development and program administration (see 0412 Government managers - economic analysis, policy development and program administration)
- Labour policy analysts (see 4164 Social policy researchers, consultants and program officers)

*Main duties*

Economists and economic policy researchers and analysts perform some or all of the following duties:

- Conduct research and develop models to analyze, explain and forecast economic behaviour and patterns, and devise methods for collection and analysis of data
- Forecast production and consumption of specific products and services based on records of past production and consumption and general economic and industry-specific conditions
- Prepare forecasts of income and expenditure, interest rates and exchange rates
- Analyze factors which determine economic growth and advise government agencies on policies to increase economic activities
- Analyze factors which determine labour force participation, employment, wages, unemployment and other labour market outcomes
- Study mathematical formulae and statistical techniques and apply them to the testing and quantifying of economic theories and the solution of economic problems
- Study the nature of money, credit and the operation of banks and other financial institutions to develop monetary policies and forecasts of financial activity
- Monitor economic data to assess the effectiveness, and advise on the appropriateness, of monetary and fiscal policies
- Examine problems related to the economic activity of individual companies
- Examine financial methods, production costs and techniques and marketing policies to recommend possible improvements
- Examine statistical data on the exchange of goods and services among nations
- Forecast production and consumption of renewable resources and supply, consumption and depletion of non-renewable resources
- Conduct research on market conditions in local, regional or national area to set sales and pricing levels for goods and services, to assess market potential and future trends and to develop business strategies
- Monitor regional and local economic trends
- Study regulatory processes and provide material in support of legal proceedings with government and other parties.

*Employment requirements*

- Occupations in this group that are involved in green building design and technologies development may require the Leadership in Energy and Environmental Design (LEED) certification offered by the Canadian Green Building Council.
- Patent agents require 12 months of work experience in the patent field and successful completion of examinations set by the Commissioner of Patents. They may also be required to be listed in the register of patent agents.

*Additional information*

- Progression to managerial positions in economics is possible with experience.

## 4163 Business development officers and marketing researchers and consultants

Business development officers and marketing researchers and consultants conduct research, formulate policies and manage programs to stimulate industrial and commercial business investment or tourism in urban and rural areas, or to promote commercial or industrial products and services. They are employed by government departments, international organizations, marketing firms and business associations or may be self-employed.

*Inclusion(s)*

- economic forecaster
- economic research officer
- place holder

*Illustrative example(s)*

- business development officer
- community economic development consultant
- economic development officer
- industrial development officer
- market researcher
- marketing analyst
- marketing consultant - market research
- regional development analyst
- tourism development officer
- tourism industry consultant

*Exclusion(s)*

- Economic development managers (see 0412 Government managers - economic analysis, policy development and program administration)
- Economists and economic policy researchers and analysts (see 4162 Economists and economic policy researchers and analysts)
- Financial and investment analysts (see 1112 Financial and investment analysts)
- International development or aid officers (see 4164 Social policy researchers, consultants and program officers)
- Marketing managers (see 0124 Advertising, marketing and public relations managers)
- Other financial officers (see 1114 Other financial officers)
- Urban and land use planners (see 2153 Urban and land use planners)

*Main duties*

Business development officers and marketing researchers and consultants perform some or all of the following duties:

- Develop policies and administer programs to promote industrial and commercial business investment in urban and rural areas
- Design market research questionnaires
- Conduct social or economic surveys on local, regional or national areas to assess development potential and future trends
- Plan development projects and co-ordinate activities with representatives of a wide variety of industrial and commercial enterprises, community and business associations and government agencies
- Assess business opportunities and develop strategies to attract venture capital
- Respond to enquiries from members of the business community and general public concerning development opportunities
- Review and evaluate commercial or industrial development proposals and provide advice on procedures and requirements for government approval
- Conduct surveys and analyze data on the buying habits and preferences of wholesale or retail consumers
- Evaluate customer service and store environments
- Conduct comparative research on marketing strategies for industrial and commercial products
- Develop social and economic profiles of urban and rural areas to encourage industrial and commercial investment and development.

- Prepare reports, research papers, educational texts or articles
- Plan and develop E-commerce strategies
- Provide consultation on planning and starting of new businesses.

*Employment requirements*

- A bachelor's degree in economics, commerce, business administration or public administration is required.
- A doctorate in economics may be required.
- A master's degree in economics or in a related discipline such as business administration or statistics is usually required.

*Additional information*

- Progression to managerial positions is possible with experience.

## 4164 Social policy researchers, consultants and program officers

Social policy researchers, consultants and program officers conduct research, develop policy and implement or administer programs in areas such as consumer affairs, employment, home economics, immigration, law enforcement, corrections, human rights, housing, labour, family services, foreign aid and international development. They are employed by government departments and agencies, industry, hospitals, educational institutions, consulting establishments, professional associations, research institutes, non-government organizations and international organizations or they may be self-employed.

*Inclusion(s)*

- Aboriginal affairs development officer
- Aboriginal employment program officer
- affirmative action advisor

*Illustrative example(s)*

- Aboriginal issues lobbyist
- child welfare policy analyst
- community policing program consultant
- community social development officer
- consumer advisor
- employment equity policy consultant
- home economist
- housing policy analyst
- human rights officer
- immigration policy analyst
- international aid and development project officer
- labour policy analyst
- social policy researcher
- social services planner
- social survey researcher (except statistician)

*Exclusion(s)*

- Business development officers and marketing researchers and consultants (see 4163 Business development officers and marketing researchers and consultants)
- Economists and economic policy researchers and analysts (see 4162 Economists and economic policy researchers and analysts)
- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)
- Health policy researchers, consultants and program officers (see 4165 Health policy researchers, consultants and program officers)
- Home economics teachers (see 4031 Secondary school teachers)
- Non-government managers in social policy (see 0423 Managers in social, community and correctional services)
- Social and community service workers (see 4212 Social and community service workers)

- Social workers (see 4152 Social workers)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Social policy researchers develop social programs and policies, social legislation, or proposals based on demographic, social and economic research, analysis and the evaluation of pilot projects.
- Home economists advise and assist consumers on the selection and proper use of food products, textiles and other consumer goods and teach household management skills. They may also provide consultative services in the areas of development and promotion of new food products, retail buying, social program administration and small business endeavours.
- Housing policy analysts identify and assess economic, demographic, and social developments and report on their implications for housing policy.
- International aid and development project officers plan, organize and administer foreign aid and international development policies and programs.
- Social survey researchers develop questionnaires, co-ordinate and conduct surveys, analyse data, and compile and interpret statistics on social issues and policy areas.
- Social services planners conduct research, develop social programs, assess, co-ordinate and develop awareness of existing social services, and ensure that duplication of services is avoided. They may also work with land use planners to determine the impact of major land use plans for transportation, housing and recreational facilities projects.

*Employment requirements*

- A bachelor's degree or college diploma in a social science or related discipline, or in business administration is usually required.
- A master's degree in a social science or related discipline or in business administration may be required.
- Certification as a certified economic developer (Ec.D.) may be required.
- Certification as a Certified Marketing Research Professional (CMRP) may be required.
- Home economists require a bachelor's degree in home economics, home economics education, human ecology, nutrition and food sciences or family and consumer studies.

*Additional information*

- Progression to managerial positions is possible with experience.

### 4165 Health policy researchers, consultants and program officers

Health policy researchers, consultants and program officers conduct research, produce reports and administer health care policies and programs. They are employed by government departments and agencies, consulting establishments, universities, research institutes, hospitals, community agencies, educational institutions, professional associations, non-governmental organizations and international organizations.

*Illustrative example(s)*

- child health care programs planning officer
- drug and alcohol abuse consultant
- health care consultant
- health care planner
- health policy research analyst
- health promotion program officer
- health services researcher
- mental health programs consultant
- policy development officer - nursing homes

*Exclusion(s)*

- Education policy researchers, consultants and program officers (see 4166 Education policy researchers, consultants and program officers)
- Government managers - health and social policy development and program administration (see 0411 Government managers - health and social policy development and program administration)

- Managers in health care (see 0311 Managers in health care)
- Social and community service workers (see 4212 Social and community service workers)
- Social policy researchers, consultants and program officers (see 4164 Social policy researchers, consultants and program officers)

*Main duties*

Health policy researchers, consultants and program officers perform some or all of the following duties:

- Assist in developing government health policy by reviewing relevant literature, conducting interviews, collecting and analysing statistical data, and providing advice to senior managers and officials on issues such as health promotion, regulation, standards and financing
- Design and implement health projects or programs
- Maintain, update and manage health information databases
- Compile and analyse statistical information provided by private and public health care institutions and organizations and produce reports
- Monitor and evaluate health care programs operated by government departments and agencies or private organizations
- Assess compliance with health standards and identify remedial action if necessary
- Conduct evaluations and assessments of health projects and programs
- Provide consulting services to clients in private establishments or government departments or agencies
- Respond to internal and external program and policy information requests
- Produce newsletters, magazines and other documents to provide information to association or organization members or the general public
- Present the views of an association or organization to politicians, government officials, the media or the general public.
- Health policy researchers, consultants and program officers may specialize in a particular area of health policy development, research or program administration such as addiction research.

*Employment requirements*

- A bachelor's degree or college diploma in health science, public administration, recreation administration or hospital administration, or a bachelor's degree in social science, is required.
- Registration is available, but voluntary, for home economists but the use of the designation "Professional Home Economist" is regulated in New Brunswick, Ontario, Manitoba and Alberta, and "Registered Professional Home Economist" in British Columbia.
- Registration with the Immigration Consultants of Canada Regulatory Council is required for Regulated Canadian immigration consultants.

*Additional information*

- Progression to managerial positions is possible with experience.

### 4166 Education policy researchers, consultants and program officers

Education policy researchers, consultants and program officers conduct research, produce reports and administer elementary, secondary and post-secondary education policies and programs. They are employed by government departments, school boards, research institutes, professional associations and educational and other organizations throughout the public and private sectors, or they may be self-employed.

*Inclusion(s)*

- language assessor
- school inspector

*Illustrative example(s)*

- curriculum developer
- curriculum planner
- education consultant
- education outreach program co-ordinator
- education policy officer

- education policy supervisor
- education program co-ordinator
- education program officer
- education researcher
- special education co-ordinator

*Exclusion(s)*

- College and other vocational instructors (see 4021 College and other vocational instructors)
- Educational counsellors (see 4033 Educational counsellors)
- Elementary school and kindergarten teachers (see 4032 Elementary school and kindergarten teachers)
- Government managers - education policy development and program administration (see 0413 Government managers - education policy development and program administration)
- Psychology assistants (except university) (see 4164 Social policy researchers, consultants and program officers)
- Secondary school teachers (see 4031 Secondary school teachers)

*Main duties*

Education policy researchers, consultants and program officers perform some or all of the following duties:

- Conduct research, produce reports and administer education policies and programs
- Evaluate curriculum programs and recommend improvements
- Develop the structure, content and objectives of new programs
- Conduct statistical analyses to determine cost and effectiveness of education policies and programs
- Provide ongoing professional development, training and consultative services to teachers and other professionals throughout the public and private sector
- Develop teaching materials and other resources for program delivery
- Deliver presentations at conferences, workshops and symposia
- May supervise the work of other education policy researchers, consultants or program officers
- May administer specialized testing and assessment programs.

*Employment requirements*

- A bachelor's degree in education or in a discipline such as social science or business administration is required.
- A graduate degree in health, social science or an administrative discipline may be required.
- A master's degree in education may be required.
- Several years of experience in the health field as a health care professional or as a community or social service worker are usually required.
- Specialized training or certification may be required.

*Additional information*

- Progression to managerial positions is possible with experience.

## 4167 Recreation, sports and fitness policy researchers, consultants and program officers

This unit group includes those who oversee and administer recreation, sports and fitness programs and activities, provide consulting services, conduct research and develop programs and policies related to recreation, sports and physical fitness. They are employed by federal, provincial and municipal governments, recreation, sports, fitness and health care facilities, retirement homes, community centres, sports and fitness consulting firms and organizations, or they may be self-employed.

*Inclusion(s)*

- fitness consultant
- fitness co-ordinator
- place holder
- place holder

*Illustrative example(s)*
- fitness policy analyst
- recreation consultant
- recreologist
- sports analyst
- sports and recreation consultant
- sports consultant
- sports policy analyst
- sports program supervisor

*Exclusion(s)*
- Program leaders and instructors in recreation, sport and fitness (see 5254 Program leaders and instructors in recreation, sport and fitness)
- Recreation, sports and fitness program and service directors (see 0513 Recreation, sports and fitness program and service directors)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:
- Recreation, sports and fitness policy analysts conduct research and develop government policies related to recreation, sports, fitness and athletic safety and standards.
- Sports program consultants provide expert advice and consulting services to sports associations and other organizations in the design, development and administration of sports programs and activities.
- Fitness program consultants provide expert advice and consulting services to community groups, corporations, schools and other organizations in the design and development of fitness programs and activities. They may write proposals and public relations statements for corporations, industry and the fitness community.
- Recreation program consultants provide expert advice and consulting services to communities, corporations, institutions and other organizations in the design, development and promotion of recreation programs and activities.
- Recreation, sports and fitness program supervisors develop, plan and co-ordinate sports, fitness and recreation programs, and special sporting events.

*Employment requirements*
- A teacher's certificate for the province of employment is usually required when employed by provincial education ministries.
- Several years of experience as a school teacher are usually required.

*Additional information*
- Mobility among recreation, sports and fitness consultants may be restricted within individual area of expertise.
- Recreation, sports and fitness program supervisors may progress to recreation, sports and fitness management positions with experience.

## 4168 Program officers unique to government

Program officers in this unit group are primarily concerned with the administration and operation of government institutions, such as Parliament, and activities unique to the operations of government, such as international relations, federal-provincial affairs, elections and tribunals.

*Illustrative example(s)*
- attaché
- elections officer
- federal-provincial relations officer
- foreign service officer
- intergovernmental affairs officer
- office of the Speaker officer

- protocol officer
- returning officer
- royal commission officer
- standing or select committee officer
- tribunal officer

*Exclusion(s)*

- Administrative officers (see 1221 Administrative officers)
- Court officers and justices of the peace (see 1227 Court officers and justices of the peace)
- Economists and economic policy researchers and analysts (see 4162 Economists and economic policy researchers and analysts)
- Employment insurance, immigration, border services and revenue officers (see 1228 Employment insurance, immigration, border services and revenue officers)
- Executive assistants (see 1222 Executive assistants)
- Social policy researchers, consultants and program officers (see 4164 Social policy researchers, consultants and program officers)

*Main duties*

Program officers unique to government perform some or all of the following duties:

- Advise politicians or diplomats on the social, economic and political effects of government decisions on other governments in Canada or abroad
- Explain Canadian foreign and domestic policies to governments and nationals of foreign countries, and act on behalf of Canada abroad
- Collect, monitor and analyze international pressures, issues and communications and brief on intelligence and security matters
- Plan intergovernmental meetings and conferences with officers of other municipal, provincial or federal governments
- Co-ordinate the logistics and administration of elections within constituencies and ensure that electoral and voting procedures are followed
- Co-ordinate administrative support services for legislative committees, royal commissions or tribunals
- Participate as a member of a board or tribunal
- Plan logistics and oversee diplomatic protocol of official visits to Canada by foreign politicians and dignitaries.

*Employment requirements*

- A bachelor's degree is usually required.
- A master's degree may be required.
- A university degree in recreation administration, sports administration, physical education, kinesiology or related discipline combined with some work experience in a related field or A college diploma in a recreation, sports or fitness program combined with some experience in a related field is required.
- Recreation, sports and fitness program supervisors require experience as program leaders or instructors in recreation, sports and fitness. Certification in program specialization, such as fitness or lifesaving, may also be required.

## 4169 Other professional occupations in social science, n.e.c.

This unit group includes anthropologists, archaeologists, geographers, historians, linguists, political scientists, sociologists and other professional occupations in social science not elsewhere classified. They are employed in universities and throughout the public and private sectors.

*Inclusion(s)*

- criminologist

*Illustrative example(s)*

- anthropologist
- archaeologist

- geographer
- gerontologist
- historian
- linguist
- political scientist
- psychometrist
- sociologist

*Exclusion(s)*

- College and other vocational instructors (see 4021 College and other vocational instructors)
- Economists and economic policy researchers and analysts (see 4162 Economists and economic policy researchers and analysts)
- Mathematicians, statisticians and actuaries (see 2161 Mathematicians, statisticians and actuaries)
- Psychologists (see 4151 Psychologists)
- Secondary school teachers (see 4031 Secondary school teachers)
- Social policy researchers, consultants and program officers (see 4164 Social policy researchers, consultants and program officers)
- University professors and lecturers (see 4011 University professors and lecturers)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Anthropologists conduct studies of the origin, development and functioning of human societies and cultures and of human evolution, changing physical characteristics and geographical distribution.
- Archaeologists study artifacts (objects and structures) to reconstruct past economic, social, political and intellectual life.
- Geographers study and analyse the spatial distribution and interrelationship of physical, biological, cultural and social patterns.
- Historians conduct research into one or more phases or aspects of past human activity and interpret and document findings.
- Linguists study the origin, structure and development of languages and apply linguistic theory to problems in teaching, translation and communications.
- Political scientists conduct research into the theory, origin, development, interrelationships and functioning of political institutions, political movements and individual political behaviour.
- Psychometricians develop psychological tests, scales and measures, and may administer or apply and interpret such tests, scales and measures. Psychometrists administer and score psychological tests, usually under the supervision of a registered psychologist.
- Sociologists study the development, structure, social patterns and interrelationships of human society.
- Other social science professionals included in this group specialize in particular areas of social sciences and humanities disciplines. These include criminologists (specialists in the study of crime and criminals), gerontologists (specialists in the phenomena and problems of ageing), graphoanalysts (specialists in handwriting analysis) and others.
- Specialization usually exists within each of these occupations.

*Employment requirements*

- Several years of experience as a researcher, consultant or program administrator may be required.

*Additional information*

- Specialization within each occupation occurs through specialized university study or through experience.

## 42 Paraprofessional occupations in legal, social, community and education services

This major group comprises paraprofessional occupations in legal, social, community and education services. It includes paralegals, social and community service workers, early childhood educators and assistants, instructors of persons with disabilities, certain instructors and certain religious occupations.

## 421 Paraprofessional occupations in legal, social, community and education services

This minor group includes paralegals, notaries public, trademark agents, social and community service workers, early childhood educators and assistants, instructors of persons with disabilities, certain other instructors, and certain religious occupations. They are employed by government, and government agencies; law firms, legal departments, and trademark development and record search companies; social service and mental health agencies, group homes, shelters, and substance abuse centres; schools and school boards; correctional facilities, and prisons; child-care centres, daycare centres, kindergartens, and agencies for exceptional children; rehabilitation centres, and specialized educational institutes; driving schools, fabric retailers, and other commercial establishments; churches, synagogues, temples, and other places of worship; and hospitals; or they may be self-employed.

### 4211 Paralegal and related occupations

Paralegals prepare legal documents and conduct research to assist lawyers or other professionals. Independent paralegals provide legal services to the public as allowed by government legislation, or provide paralegal services on contract to law firms or other establishments. Notaries public administer oaths, take affidavits, sign legal documents and perform other activities according to the scope of their practice. Trademark agents advise clients on intellectual property matters. Paralegals are employed by law firms, by record search companies and in legal departments throughout the public and private sectors. Independent paralegals are usually self-employed. Notaries public are employed by government and in the public and private sectors or they may be self-employed. Trademark agents are employed by law firms and legal departments throughout the public and private sectors, trademark development and search firms or they may be self-employed.

*Inclusion(s)*
- law clerk

*Illustrative example(s)*
- commercial law clerk
- corporate paralegal
- family law paralegal
- independent paralegal
- land titles examiner
- legal researcher
- notary public
- paralegal
- real estate law clerk
- title searcher
- trademark agent

*Exclusion(s)*
- Articling law students, Quebec notaries and trademark lawyers (see 4112 Lawyers and Quebec notaries)
- Legal administrative assistants (see 1242 Legal administrative assistants)
- Patent agents (see 4161 Natural and applied science policy researchers, consultants and program officers)

*Main duties*

Paralegals perform some or all of the following duties:
- Assist lawyers by interviewing clients, witnesses and other related parties, assembling documentary evidence, preparing trial briefs, and arranging for trials
- Assist lawyers in preparation for mediation and judicial dispute resolutions
- Under the supervision of a lawyer, prepare wills, real estate transactions and other legal documents, court reports and affidavits
- Research records, court files and other legal documents
- Draft legal correspondence and perform general office and clerical duties.

Independent paralegals perform some or all of the following duties:

- Represent clients in small claims court and in other lower court proceedings, at tribunals and before administrative bodies
- Advise clients and take legal action on landlord and tenant matters, traffic violations, name changes and other issues within their jurisdictions.

Notaries public perform some or all of the following duties:
- Administer oaths and take affidavits and depositions
- Witness and certify the validity of signatures on documents
- May draft contracts, prepare promissory notes and draw up wills, mortgages and other legal documents
- May arrange probates and administer the estates of deceased persons.

Trademark agents perform some or all of the following duties:
- Advise clients on intellectual property matters and represent clients before the Registrar of Trade-Marks on matters including prosecution of applications for registration of trademarks
- Advise on the registrability of trademarks, trademark licensing requirements, transfer of intellectual property and protection of existing trademark rights
- Represent clients at proceedings before the Trade Marks Opposition Board and in related proceedings
- May represent clients internationally in consultation with foreign associates and attorneys.

*Employment requirements*
- A master's or doctoral degree in the discipline is usually required.
- Foreign service officers are accepted on the basis of competitive examination.
- Independent paralegals require knowledge of legal principles and procedures usually obtained through industry-sponsored courses and through experience, or through completion of a community college paralegal program.
- Notaries public are appointed after examination and certification of their qualifications by the governing judiciary in their province or territory. All appointments have specific limitations on the activities they can perform and for specific periods of time.
- Notaries public require a provincial licence. In British Columbia, membership in the Society of Notaries Public is also required.
- Notaries public usually require a university degree in law or a related field.
- Paralegals in law firms require a bachelor's degree in law or a law college diploma and in-house training from a law firm or other legal establishment.
- Paralegals require a licence to perform advanced legal services.

*Additional information*
- Notaries public usually receive in-house training and perform their duties in rural or remote areas or in the business offices in which they are employed.

## 4212 Social and community service workers

Social and community service workers administer and implement a variety of social assistance programs and community services, and assist clients to deal with personal and social problems. They are employed by social service and government agencies, mental health agencies, group homes, shelters, substance abuse centres, school boards, correctional facilities and other establishments.

*Inclusion(s)*
- residential counsellor - group home

*Illustrative example(s)*
- Aboriginal outreach worker
- addictions worker
- child and youth worker
- community development worker
- community service worker
- crisis intervention worker
- developmental service worker
- drop-in centre worker

- family service worker
- group home worker
- income maintenance officer - social services
- life skills instructor
- mental health worker
- rehabilitation worker - social services
- social services worker
- veteran services officer
- welfare and compensation officer
- women's shelter supervisor
- youth worker

*Exclusion(s)*

- Activities leaders - seniors (see 5254 Program leaders and instructors in recreation, sport and fitness)
- Educational counsellors (see 4033 Educational counsellors)
- Family, marriage and other related counsellors (see 4153 Family, marriage and other related counsellors)
- Instructors of persons with disabilities (see 4215 Instructors of persons with disabilities)
- Managers in social, community and correctional services (see 0423 Managers in social, community and correctional services)
- Social workers (see 4152 Social workers)

*Main duties*

Social and community service workers perform some or all of the following duties:

- Review client background information, interview clients to obtain case history and prepare intake reports
- Assess clients' relevant skill strengths and needs
- Assist clients to sort out options and develop plans of action while providing necessary support and assistance
- Assess and investigate eligibility for social benefits
- Refer clients to other social services or assist clients in locating and utilizing community resources including legal, medical and financial assistance, housing, employment, transportation, day care and other services
- Counsel clients living in group homes and half-way houses, supervise their activities and assist in pre-release and release planning
- Participate in the selection and admission of clients to appropriate programs
- Implement life skills workshops, substance abuse treatment programs, behaviour management programs, youth services programs and other community and social service programs under the supervision of social services or health care professionals
- Meet with clients to assess their progress, give support and discuss any difficulties or problems
- Assist in evaluating the effectiveness of treatment programs by tracking clients' behavioural changes and responses to interventions
- Advise and aid recipients of social assistance and pensions
- Provide crisis intervention and emergency shelter services
- Implement and organize the delivery of specific services within the community
- Maintain contact with other social service agencies and health care providers involved with clients to provide information and obtain feedback on clients' overall progress
- Co-ordinate the volunteer activities of human service agencies, health care facilities and arts and sports organizations
- May maintain program statistics for purposes of evaluation and research
- May supervise social service support workers and volunteers.

*Employment requirements*

- Completion of a college or university program in social work, child and youth care, psychology or other social science or health-related discipline is usually required.

- To be licensed, trademark agents are required to work in the area of trademark law, including the preparation and prosecution of trademark applications for registration, for two years and To successfully complete the examination conducted jointly by the Intellectual Property Institute of Canada and the Registrar of Trade-Marks, Canadian Intellectual Property Office or Either one of the above and to be a lawyer entitled to practise in Canada.
- Trademark agents require registration with the federal Trade-Mark Office.

*Additional information*

- Progression to professional occupations in social services, such as family and marriage counsellors, social workers, and probation and parole officers, is possible with additional training and experience.

## 4214 Early childhood educators and assistants

Early childhood educators plan, organize and implement programs for children between the ages of infancy and 12 years. Early childhood educator assistants provide care for infants and preschool- to school-age children under the guidance of early childhood educators. Early childhood educators and assistants lead children in activities to stimulate and develop their intellectual, physical and emotional growth and ensure their security and well-being. They are employed in child-care centres, daycare centres, kindergartens, agencies for exceptional children and other settings where early childhood education services are provided. Supervisors of early childhood educators and assistants are included in this unit group.

*Inclusion(s)*

- daycare teacher
- educator assistant - junior kindergarten
- nursery school teacher

*Illustrative example(s)*

- child care worker assistant
- daycare helper
- daycare supervisor
- daycare worker
- early childhood assistant
- early childhood education worker
- early childhood educator - preschool
- early childhood educator (E.C.E.)
- early childhood educator assistant
- early childhood program staff assistant
- early childhood supervisor
- preschool helper
- preschool supervisor

*Exclusion(s)*

- Child-care centre administrators (see 0423 Managers in social, community and correctional services)
- Elementary and secondary school teacher assistants (see 4413 Elementary and secondary school teacher assistants)
- Elementary school and kindergarten teachers (see 4032 Elementary school and kindergarten teachers)

*Main duties*

Early childhood educators and assistants perform some or all of the following duties:

- Early childhood educators
- Develop and implement child-care programs that support and promote the physical, cognitive, emotional and social development of children
- Lead activities by telling or reading stories, teaching songs, taking children to local points of interest and providing opportunities to express creativity through the media of art, dramatic play, music and physical activity
- Plan and maintain an environment that protects the health, security and well-being of children

- Assess the abilities, interests and needs of children and discuss progress or problems with parents and other staff members
- Observe children for signs of potential learning or behavioural problems and prepare reports for parents, guardians or supervisor
- Guide and assist children in the development of proper eating, dressing and toilet habits
- Establish and maintain collaborative relationships with co-workers and community service providers working with children
- May plan and organize activities for school-age children in child-care programs before and after regular school hours
- May supervise and co-ordinate activities of other early childhood educators and early childhood educator assistants.
- Early childhood educator assistants
- Support early childhood educators in carrying out programs that promote the physical, cognitive, emotional and social development of children
- Engage children in activities by telling stories, teaching songs and preparing crafts
- Prepare snacks and arrange rooms or furniture for lunch and rest periods
- Assist with proper eating, dressing and toilet habits
- Submit written observations on children to early childhood educators or supervisors
- Maintain daycare equipment and assist in housekeeping and cooking duties
- Attend staff meetings to discuss progress and problems of children
- May assist early childhood educators or supervisors in keeping records.

*Employment requirements*

- Completion of a two- to four-year college program in early childhood education or A bachelor's degree in child development is required.
- Completion of secondary school is required.
- Early childhood educator assistants
- Early childhood educators
- Experience in child care is required.
- Licensing is required in Ontario and certification is required in British Columbia for early childhood educators. Licensing for early childhood educators is usually required in all other provinces and territories.
- Previous work experience in a social service environment as a volunteer or in a support capacity may replace formal education requirements for some occupations in this unit group.
- Social service workers may be required to be a member of a provincial regulatory body in some provinces.

*Additional information*

- Progression to senior positions, such as daycare supervisor, is possible with several years of experience or with experience and advanced ECE qualification levels.

## 4215 Instructors of persons with disabilities

Instructors of persons with disabilities teach children and adults using a variety of techniques to facilitate communication, rehabilitation, social skills and increased independence. They are employed in rehabilitation centres, specialized educational institutes and throughout the school system.

*Illustrative example(s)*

- braille instructor
- instructor of persons with a mobility impairment
- instructor of persons who are deaf
- instructor of persons who are hard of hearing
- instructor of persons with a learning disability
- instructor of persons with a visual impairment
- instructor of persons with special needs
- lip-reading instructor
- orientation and mobility instructor
- sign language instructor
- teacher for persons with intellectual disabilities

*Exclusion(s)*
- Occupational therapy rehabilitation consultants (see 3143 Occupational therapists)
- Special education technicians - social and community services (see 4212 Social and community service workers)
- Special needs educational assistants (see 4413 Elementary and secondary school teacher assistants)
- Special needs teachers - elementary school (see 4032 Elementary school and kindergarten teachers)
- Special needs teachers - secondary school (see 4031 Secondary school teachers)
- Speech and hearing therapists (see 3141 Audiologists and speech-language pathologists)

*Main duties*

Instructors of persons with disabilities perform some or all of the following duties:
- Develop individualized education and intervention plans based on special needs of client to facilitate their readaptation and independence objectives
- Assess individuals in areas such as physical limitations, orientation and mobility skills, and cognitive, social and emotional barriers to establish client rehabilitation or adaptation goals
- Assist individuals with physical, intellectual, visual and hearing disabilities or multiple disorders to develop life skills and provide job training
- Instruct individuals with disabilities and their families in the use of rehabilitative techniques, prosthetic devices, wheelchairs and other equipment designed to maximize clients' independence and potential
- Instruct persons with a visual impairment in reading and writing braille and in the use of special equipment or supports such as human or animal guides, long canes and other adaptive mobility devices
- Instruct persons who are hard of hearing or deaf in lip-reading, finger spelling and sign language according to individual communication needs
- Instruct persons who are hard of hearing or deaf in the formation and development of sounds for speech using hearing aids, and other devices and techniques
- Collaborate with specialists, such as rehabilitation counsellors, speech-language pathologists and occupational therapists, to develop programs for clients' special needs

*Employment requirements*
- Completion of an early childhood education assistant certificate program or post-secondary courses in early childhood education may be required.
- Licensing by a provincial or territorial association as an early childhood educator may be required.

## 4216 Other instructors

Instructors in this unit group teach courses, such as motor vehicle or motorcycle driving, sailing and navigation, sewing or other courses, which are outside of educational institutions. They are employed by driving schools, fabric retailers and other commercial establishments or they may be self-employed. This unit group also includes modelling and finishing school instructors, driver's licence examiners, who are employed by provincial governments and tutors who provide instruction in elementary or secondary school subjects.

*Inclusion(s)*
- truck driving instructor

*Illustrative example(s)*
- driver's licence examiner
- driving instructor
- modelling and finishing school instructor
- motorcycle driving instructor
- sewing instructor - non-vocational

*Exclusion(s)*
- College and other vocational instructors (see 4021 College and other vocational instructors)
- Elementary school and kindergarten teachers (see 4032 Elementary school and kindergarten teachers)
- Secondary school teachers (see 4031 Secondary school teachers)

*Main duties*

Driving instructors perform some or all of the following duties:

- Instruct individuals on proper motor vehicle driving skills and traffic regulations
- Demonstrate and explain the handling and mechanical operation of motor vehicles
- Supervise individuals during practice driving.

Driver's licence examiners perform some or all of the following duties:

- Conduct road test examinations
- Evaluate the driving ability of applicants for driver's licences.

Sewing instructors perform some or all of the following duties:

- Give instruction to students in techniques and skills of sewing, tailoring and dressmaking.

Modelling and finishing school instructors perform some or all of the following duties:

- Give instruction on comportment, personal development, make-up application and modelling techniques for fashion shows and magazine advertising.

*Employment requirements*

- A bachelor's degree in special education or a related field such as social work or psychology may be required.
- Completion of a college program in special education, rehabilitation, orientation and mobility, visual impairment, hearing impairment or intellectual disability is required.
- Expertise in the field of instruction must be demonstrated.

## 4217 Other religious occupations

This unit group includes brothers, nuns, monks, religious education workers and others who provide support to ministers of religion or to a religious community and who perform certain functions associated with the practice of a religion. They may perform these duties in churches, synagogues, temples or other places of worship; in institutions such as schools, hospitals and prisons; or in industrial facilities, corporate enterprises; or they may work in private practice.

*Inclusion(s)*

- cantor

*Illustrative example(s)*

- brother/sister - religion
- Christian science practitioner
- deacon
- missionary
- monk
- nun
- pastoral animator
- religious education worker
- Salvation Army field worker

*Exclusion(s)*

- Medical missionaries (see 3112 General practitioners and family physicians)
- Professional occupations in religion (see 4154 Professional occupations in religion)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Assist at services of public worship and religious rites
- Provide religious education, spiritual guidance and moral support to members of a religious community
- Conduct outreach activities and facilitate community involvement
- Administer programs providing food, clothing and shelter
- May plan, organize and lead worship services and church activities for a specific audience.

*Employment requirements*

- Certification by the Canadian Yachting Association may be required for sailing and navigation instructors.
- Driving instructors must obtain special licensing as a driving instructor in the province of employment.

## 43 Occupations in front-line public protection services

This major group comprises occupations in government services that require some combination of secondary or post-secondary education and occupation-specific training and that have significant health and safety responsibilities. It includes police officers (except commissioned), firefighters and non-commissioned members of the Canadian Armed Forces.

## 431 Occupations in front-line public protection services

This minor group includes police officers (except commissioned), firefighters, and non-commissioned officers and members of the Canadian Armed Forces. They are employed by municipal, regional, provincial, and federal governments; and large industrial establishments that have internal firefighting services.

## 4311 Police officers (except commissioned)

Police officers protect the public, detect and prevent crime and perform other activities directed at maintaining law and order. They are employed by municipal and federal governments and some provincial and regional governments.

*Inclusion(s)*

- crime scene technician - police
- police diver

*Illustrative example(s)*

- community relations officer - police
- constable
- crime prevention constable
- detective - police
- harbour police officer
- highway patrol officer
- police cadet
- police officer
- police sergeant
- railway police officer
- RCMP officer

*Exclusion(s)*

- By-law enforcement and other regulatory officers, n.e.c. (see 4423 By-law enforcement and other regulatory officers, n.e.c.)
- Commissioned police officers (see 0431 Commissioned police officers)
- Private detectives (see 6541 Security guards and related security service occupations)
- Sheriffs and bailiffs (see 4421 Sheriffs and bailiffs)

*Main duties*

Police officers perform some or all of the following duties:

- Patrol assigned areas to maintain public safety and order and to enforce laws and regulations
- Investigate crimes and accidents, execute search warrants, secure evidence, interview witnesses, compile notes and reports and provide testimony in courts of law
- Apprehend and arrest criminal suspects
- Provide emergency assistance to victims of accidents, crimes and natural disasters
- Participate in crime prevention, public information and safety programs
- May supervise and co-ordinate the work of other police officers.

*Employment requirements*

- A three- to six-month police training program is required.
- Completion of a college program or university degree in law and security or in the social sciences is usually required.
- Completion of college, university or other program in religious studies may be required, depending on the particular occupation and religion.
- Completion of secondary school is required.
- Physical agility, strength, fitness and vision requirements must be met, and psychological or other tests are also required.
- There may be other employment requirements depending on the particular occupation and religion.

*Additional information*

- Progression to commissioned police officer positions is possible with additional training and experience.

## 4312 Firefighters

Firefighters carry out firefighting and fire prevention activities, and assist in other emergencies. They are employed by municipal, provincial and federal governments and by large industrial establishments that have internal firefighting services.

*Illustrative example(s)*

- airport firefighter
- fire captain
- firefighter
- firefighter lieutenant
- industrial firefighter
- shipboard firefighter

*Exclusion(s)*

- Fire chiefs and senior firefighting officers (see 0432 Fire chiefs and senior firefighting officers)
- Forest firefighters (see 8422 Silviculture and forestry workers)
- Paramedics (see 3234 Paramedical occupations)

*Main duties*

Firefighters perform some or all of the following duties:

- Respond to fire alarms and other calls for assistance, such as automobile and industrial accidents, bomb threats and other emergencies
- Rescue victims from burning buildings and accident sites
- Control and extinguish fires using manual and power equipment, such as axes, water hoses, aerial ladders and hydraulic equipment and various firefighting chemicals
- Administer first aid and other assistance
- Ensure proper operation and maintenance of firefighting equipment
- Prepare written reports on fire incidents
- Inform and educate the public on fire prevention
- Train to maintain high level of physical fitness
- Assist the public, the police and emergency organizations during times of major disasters
- May participate as members of a trauma or emergency response team and provide paramedical aid to accident victims or ill persons
- May supervise and co-ordinate the work of other firefighters
- May conduct building inspections to ensure compliance with fire code.

*Employment requirements*

- Certification for firefighters is compulsory in Nova Scotia, Quebec, Ontario, Manitoba and Alberta, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Saskatchewan, British Columbia, the Yukon, the Northwest Territories and Nunavut.

- Completion of a college program in fire protection technology, fire science or a related field and a period of supervised practical training is usually required.
- Completion of secondary school is usually required.
- Experience as a constable and the completion of specialized courses are required for detectives and sergeants.
- Experience as a volunteer firefighter may be an advantage.
- Firefighting and emergency medical care training courses are provided and vary in length depending on the requirements of different fire departments or services.
- Specialized training or certification is required for certain areas of policing.

*Additional information*
- Progression to senior positions such as fire chief is possible with additional training and several years of experience.

### 4313 Non-commissioned ranks of the Canadian Armed Forces

This unit group consists of Canadian Armed Forces personnel who are non-commissioned officers (NCOs) or members of other non-commissioned ranks. They provide collective defence measures to protect Canadian waters, land, airspace and other interests. All ranks of non-commissioned officers and members in the air force, army, and navy are included in this unit group.

*Illustrative example(s)*
- able seaman - armed forces
- chief warrant officer
- master corporal
- master seaman
- ordinary seaman - armed forces
- petty officer first class
- private
- sergeant

*Exclusion(s)*
- Commissioned officers of the Canadian Armed Forces (see 0433 Commissioned officers of the Canadian Armed Forces)

*Main duties*

Personnel in non-commissioned ranks of the Canadian Armed Forces perform some or all of the following duties:
- Operate armoured vehicles, artillery, hand-held weapons and other military combat equipment and defence systems
- Conduct peacekeeping operations and enforce cease-fire agreements
- Engage in non-combat operations for humanitarian efforts
- Provide assistance in emergency situations, such as civil disorder, natural disasters and major accidents
- Participate in drills and other training in preparation for peacekeeping, combat and natural disaster relief duties
- Perform administrative and guard duties.
- Personnel in this unit group are assigned to specific operations related to reconnaissance, peacekeeping, disaster relief and combat.

*Employment requirements*
- Completion of secondary school is usually required.
- Physical agility, strength, fitness and vision requirements must be met.
- Several years of experience are required for senior firefighters, such as lieutenants and captains.

*Additional information*
- Military personnel are classified according to their military rank.

- Progression to commissioned officer occupations is possible with additional training and experience.

## 44 Care providers and educational, legal and public protection support occupations

This major group comprises occupations in education, law and social, community and government services that generally require completion of secondary school and specific training courses or work experience and may also require related post-secondary studies. It includes home child care providers, home support workers, school teacher assistants, sheriffs, bailiffs, correctional service officers, by-law enforcement officers and certain regulatory officers.

### 441 Home care providers and educational support occupations

This minor group includes home child care providers, home support workers, housekeepers, and elementary and secondary school teacher assistants. They are employed by private households; child-care, home care, and support agencies; in other non-institutional, residential settings; and public and private elementary, secondary, and special needs schools and treatment centres; or they may be self-employed.

### 4411 Home child care providers

Home child care providers care for children on an ongoing or short-term basis. They care for the well-being and physical and social development of children, assist parents with child care and may assist with household duties. They provide care primarily in their own homes or in the children's homes, where they may also reside. They are employed by private households and child-care agencies, or they may be self-employed.

*Inclusion(s)*
- babysitter - fitness centre
- babysitter - shopping centre
- foster parent
- place holder

*Illustrative example(s)*
- babysitter
- child care live-in caregiver
- child care provider - private home
- nanny
- parent's helper

*Exclusion(s)*
- Child care workers - daycare (see 4214 Early childhood educators and assistants)
- Live-in caregivers for seniors and persons with disabilities (see 4412 Home support workers, housekeepers and related occupations)

*Main duties*

Home child care providers perform some or all of the following duties:
- Supervise and care for children in employer's or own residence
- Bathe, dress and feed infants and children
- Prepare formulas and change diapers for infants
- Plan, prepare and serve meals for children and may perform other housekeeping duties
- Oversee children's activities, such as meals and rest periods, as instructed by employer
- Maintain a safe and healthy environment in the home
- Instruct children in personal hygiene
- Tend to the emotional well-being of children and support their social development
- Discipline children according to the methods requested by the parents
- Provide age-appropriate educational training through organized activities such as games, crafts, reading and outings
- Take children to and from school and appointments

- May be required to keep records of daily activities and health information regarding each child.

Foster parents perform some or all of the following duties:

- Care for foster children, usually on an emergency or temporary basis, as a primary guardian under general direction of foster parent agency
- Consult foster parent agency supervisors for advice and when problems arise
- Administer foster care programs for foster children, as directed by foster parent agency social workers.

*Employment requirements*

- Child care or household management experience may be required.
- Completion of secondary school may be required.
- Home child care providers, parent's helpers and foster parents may require completion of a training program in child care or a related field.
- Specialized training in the operation and maintenance of military equipment and systems is provided.
- Three months of basic military training are provided.

*Additional information*

- There is mobility among occupations in this group.

## 4412 Home support workers, housekeepers and related occupations

Home support workers provide personal care and companionship for seniors, persons with disabilities and convalescent clients. Care is provided within the client's residence, in which the home support worker may also reside. They are employed by home care and support agencies, private households, or they may be self-employed. Housekeepers perform housekeeping and other home management duties in private households and other non-institutional, residential settings.

*Inclusion(s)*

- doula
- home visitor - infant care

*Illustrative example(s)*

- attendant for persons with disabilities - home care
- family caregiver
- home support worker
- housekeeper
- live-in caregiver - seniors
- personal aide - home support
- personal care attendant - home care
- respite worker - home support

*Exclusion(s)*

- Home child care providers (see 4411 Home child care providers)

*Main duties*

Home support workers perform some or all of the following duties:

- Provide care and companionship for individuals and families during periods of incapacitation, convalescence or family disruption
- Administer bedside and personal care to clients such as aid in ambulation, bathing, personal hygiene, and dressing and undressing
- Plan and prepare meals and special diets, and feed or assist in feeding clients
- May perform routine health-related duties such as changing non-sterile dressings, assisting in the administration of medications and collecting specimens under the general direction of home care agency supervisor or nurse
- May perform routine housekeeping duties such as laundry, washing dishes and making beds.

Housekeepers perform some or all of the following duties:

- Perform housekeeping and other home management duties under general direction of employer
- Plan and prepare meals independently or with employer, and may serve meals
- May care for children.

*Employment requirements*

- College or other courses in home support may be required.
- Demonstrated ability to perform work is usually required.
- First aid certification and CPR (cardiopulmonary resuscitation) training may be required.
- Home management experience may be required.
- Some secondary school education is usually required.

*Additional information*

- There is mobility among the occupations in this group.

### 4413 Elementary and secondary school teacher assistants

Elementary and secondary school teacher assistants support students, and assist teachers and counsellors with teaching and non-instructional tasks. They assist in areas of personal care, teaching and behaviour management under the supervision of teachers or other child care professionals. They are employed in public and private elementary, secondary and special needs schools and treatment centres.

*Illustrative example(s)*

- educational assistant
- educational resources assistant
- elementary school teacher's aide
- homework assistant
- remedial education aide
- school lunchroom supervisor
- secondary school teacher's assistant
- special education assistant

*Exclusion(s)*

- Early childhood educators and assistants (see 4214 Early childhood educators and assistants)
- Elementary school and kindergarten teachers (see 4032 Elementary school and kindergarten teachers)
- Instructors of persons with disabilities (see 4215 Instructors of persons with disabilities)
- Post-secondary teaching and research assistants (see 4012 Post-secondary teaching and research assistants)

*Main duties*

Elementary and secondary school teacher assistants perform some or all of the following duties:

- Assist students with integration into the classroom and school setting
- Help students individually or in small groups with assignments and reinforce learning and retention concepts under the supervision of classroom teacher
- Assist students with special needs using techniques such as sign language, braille and remedial programs
- Monitor and report student progress to classroom teacher
- Accompany and supervise students during activities in school gymnasiums, laboratories, libraries, resource centres and on field trips
- May assist teacher in the operation of projectors, tape recorders and other audio-visual or electronic equipment
- May assist in school library or office and perform other duties assigned by school principal
- May monitor students during recess, at noon hour or during the day.

*Employment requirements*

- Completion of a training program in care of the elderly, care of persons with disabilities, convalescent care or in a related field may be required.
- Completion of secondary school is required.

- First aid certification may be required.

*Additional information*

- Mobility to other occupations related to child care and adolescent supportive instruction is possible with experience.

## 442 Legal and public protection support occupations

This minor group includes sheriffs, bailiffs, correctional service officers, by-law enforcement officers, and other regulatory officers not elsewhere classified. They are employed by provincial and territorial courts; federal, provincial, and municipal governments; provincial and municipal agencies; and in private service as agents for creditors.

## 4421 Sheriffs and bailiffs

Sheriffs execute and enforce court orders, warrants and writs, participate in seizure and sale of property and perform courtroom and other related duties. Bailiffs serve legal orders and documents, seize or repossess properties, evict tenants and perform other related activities. Sheriffs and bailiffs are employed by provincial or territorial courts, and bailiffs may be employed as officers of the court or in private service as agents for creditors.

*Illustrative example(s)*

- bailiff
- deputy sheriff
- sheriff
- sheriff's bailiff
- sheriff's officer

*Exclusion(s)*

- Correctional service officers (see 4422 Correctional service officers)
- Court clerks (see 1416 Court clerks)
- Police officers (except commissioned) (see 4311 Police officers (except commissioned))

*Main duties*

Sheriffs and bailiffs perform some or all of the following duties:

- Serve statements of claims, summonses, warrants, jury summonses, orders to pay spousal support, and other court orders
- Serve writs of execution by seizing and selling property and distributing the proceeds according to court decisions
- Locate property and make seizures and removals under various acts of Parliament
- Provide courthouse security for judges and perimeter security for the courthouse
- Escort prisoners to and from courts and correctional institutions
- Prepare comprehensive reports and affidavits and maintain records
- Attend court, escort witnesses and assist in maintaining order
- Ensure security support services for sequestered juries
- Issue warrants for imprisonment, arrest or apprehension.

*Employment requirements*

- A college diploma or bachelor's degree in legal studies is usually required.
- Completion of secondary school is required.
- Sheriffs require experience as a deputy sheriff or bailiff and/or in custodial/escort or security work.
- Teacher assistants usually require completion of a 10-month college program in teaching assistance, educational assistance or other social science program.
- Teacher assistants who help students with special needs usually require specialized training and experience.

*Additional information*
- Progression to supervisory positions is possible with additional experience and in-house training.

## 4422 Correctional service officers

Correctional service officers guard offenders and detainees and maintain order in correctional institutions and other places of detention. They are employed by federal, provincial and municipal governments. Correctional service officers who are supervisors are included in this unit group.

*Inclusion(s)*
- detention attendant
- place holder

*Illustrative example(s)*
- correctional facility guard
- correctional officers supervisor
- correctional service officer
- prison guard

*Exclusion(s)*
- Detention home workers (see 4212 Social and community service workers)
- Managers in social, community and correctional services (see 0423 Managers in social, community and correctional services)
- Probation and parole officers and related occupations (see 4155 Probation and parole officers and related occupations)
- Social workers (see 4152 Social workers)

*Main duties*

Correctional service officers perform some or all of the following duties:
- Observe conduct and behaviour of offenders and detainees to prevent disturbances and escapes
- Supervise offenders during work assignments, meals and recreation periods
- Patrol assigned area and report any problems to supervisor
- Conduct security checks and scanning of visitors, inmates and their cells, working areas and recreational activity areas
- Observe behaviour of offenders and prepare reports
- Escort detainees in transit and during temporary leaves
- Prepare admission, program, release, transfer and other reports
- May supervise and co-ordinate work of other correctional service officers.

*Employment requirements*
- Bailiffs usually require some work experience related to law enforcement as well as knowledge of relevant statutes and laws.
- Completion of secondary school is required.
- Correctional officer recruits are usually required to complete a basic training course to be employed by provincial/territorial institutions.
- Correctional officer recruits must successfully complete the Correctional Service of Canada training course to be employed by federal institutions.
- Membership in the provincial regulatory body is mandatory in Quebec.
- Physical agility, strength and fitness requirements must be met.
- Post-secondary education in correctional services, police studies or criminology may be required.

## 4423 By-law enforcement and other regulatory officers, n.e.c.

Officers and inspectors in this unit group enforce by-laws and regulations of provincial and municipal governments. They are employed by provincial and municipal governments and agencies.

*Illustrative example(s)*
- animal control officer
- by-law enforcement officer
- commercial transport inspector
- garbage collection inspector
- liquor licence inspector
- parking control officer
- property standards inspector
- taxi inspector
- zoning inspector

*Exclusion(s)*
- Employment insurance, immigration, border services and revenue officers (see 1228 Employment insurance, immigration, border services and revenue officers)
- Engineering inspectors and regulatory officers (see 2262 Engineering inspectors and regulatory officers)
- Inspectors in public and environmental health and occupational health and safety (see 2263 Inspectors in public and environmental health and occupational health and safety)
- Police officers (except commissioned) (see 4311 Police officers (except commissioned))
- Sheriffs and bailiffs (see 4421 Sheriffs and bailiffs)

*Main duties*

Animal control officers perform some or all of the following duties:
- Respond to citizen complaints concerning stray domestic animals, livestock and wildlife
- Issue warnings and citations to owners
- Impound lost, homeless and dangerous animals.

By-law enforcement officers perform some or all of the following duties:
- Enforce municipal and provincial regulations
- Investigate complaints
- Issue warnings and citations to commercial and residential property owners and occupants.

Commercial transport inspectors perform some or all of the following duties:
- Inspect commercial vehicles to ensure compliance with regulations governing load restrictions, the transportation of hazardous materials and public safety

Garbage collection inspectors perform some or all of the following duties:
- Investigate complaints concerning infractions of garbage collection by-laws.

Liquor licence inspectors perform some or all of the following duties:
- Conduct inspections of licensed establishments
- Advise licencees on laws and regulations
- Report contravention of laws and regulations to provincial liquor control boards and agencies.

Parking control officers perform some or all of the following duties:
- Enforce parking by-laws on city streets, regional roads and municipal properties.

Taxi inspectors perform some or all of the following duties:
- Inspect taxicabs for mechanical reliability, cleanliness, licensing and meter accuracy
- Investigate public complaints, issue citations and prepare reports
- Give evidence to city councils, taxi commissions and in court.

Zoning inspectors perform some or all of the following duties:
- Investigate properties in violation of zoning and related by-laws, after receiving requests for licence clearances pertaining to zoning and related by-laws, and on receipt of building permit applications.
- By-law enforcement officers may specialize in the enforcement of one specific by-law.

*Employment requirements*
- Completion of a college program or courses in law and security or other related field or Experience in a related administrative or regulatory occupation is usually required.
- Completion of secondary school is required.
- Correctional service supervisors require experience as a correctional service officer.

- First aid certification and CPR (cardiopulmonary resuscitation) training are usually required.

## 5 Occupations in art, culture, recreation and sport

This category includes occupations in art and culture, including the performing arts, film and video, broadcasting, journalism, writing, creative design, libraries and museums. It also includes occupations in recreation and sports.

These occupations are linked by subject matter to formal post-secondary educational programs but have, for the most part, a range of acceptable qualifications. Occupations in this category are also characterized by a requirement for creative talent, such as for designers and performers, and for athletic ability in the area of sport.

## 51 Professional occupations in art and culture

This major group comprises professional occupations in art and culture. It includes librarians, archivists, conservators, curators, writers, translators and artists.

## 511 Librarians, archivists, conservators and curators

This minor group includes librarians, archivists, conservators and curators. They are employed by libraries, museums, art galleries, archives, universities, and private sector organizations; or they may be self-employed.

## 5111 Librarians

Librarians select, develop, organize and maintain library collections and provide advisory services for users. They are employed in libraries or other establishments with library services throughout the public and private sectors.

*Illustrative example(s)*
- bibliographer
- cataloguer - library
- cybrarian
- liaison librarian
- librarian
- library consultant
- library supervisor

*Exclusion(s)*
- Library and public archive technicians (see 5211 Library and public archive technicians)
- Library curators (see 5112 Conservators and curators)
- Library directors and managers (see 0511 Library, archive, museum and art gallery managers)
- School librarians (see 5211 Library and public archive technicians)
- Teacher-librarian, elementary school (see 4032 Elementary school and kindergarten teachers)
- Teacher-librarian, high school (see 4031 Secondary school teachers)

*Main duties*

Librarians perform some or all of the following duties:
- Recommend acquisition of books, periodicals and audio-visual, interactive media and other materials for inclusion in library collection
- Provide reference services
- Select, classify, catalogue and weed library materials
- Prepare bibliographies, indexes, reading lists, guides and other finding aids
- Develop systems to access library collections
- Perform manual, on-line and interactive media reference searches to assist users in accessing library materials and arrange for interlibrary loans
- Develop taxonomies using various information and data sources
- Provide specialized programs for children, seniors and other groups
- Conduct library information and orientation training programs and tours

- Perform related administrative duties and supervise library technicians, assistants and clerks.

*Employment requirements*

- Zoning inspectors or zoning enforcement officers may require a college diploma as a civil engineering or architectural technologist or technician and several years of experience in enforcement and/or building construction or a related field.

*Additional information*

- Progression to library management positions is possible with experience.

## 5112 Conservators and curators

Conservators restore and conserve artifacts belonging to museums, galleries and owners of cultural property. Curators recommend the acquisition of museum artifacts and gallery works of art and research their artistic history. Conservators and curators are employed in museums, art galleries and universities. Conservators may be self-employed.

*Inclusion(s)*

- assistant curator

*Illustrative example(s)*

- art gallery conservator
- conservator - art objects
- conservator - museum
- curator
- historical artifact conservator
- natural history museum curator

*Exclusion(s)*

- Curatorial assistants (see 5212 Technical occupations related to museums and art galleries)
- Museum designers (see 5243 Theatre, fashion, exhibit and other creative designers)
- Museum educators (see 1123 Professional occupations in advertising, marketing and public relations)
- Restaurateurs in food services (see 0631 Restaurant and food service managers)

*Main duties*

Conservators perform some or all of the following duties:

- Examine artifacts, determine their condition, suggest methods for treating them and recommend preventive conservation techniques to their owners
- Restore and conserve paintings, photographs, sculptures, furniture, pottery and other museum and art gallery artifacts
- Provide advice on display and storage of museum and gallery artifacts to ensure proper maintenance and preservation
- Research new conservation and restoration techniques
- Provide consultation to museums, art galleries or private individuals
- Supervise conservation technicians and other museum technicians.

Curators perform some or all of the following duties:

- Recommend the acquisition of paintings, photographs, sculptures, documents and other museum and art gallery artifacts
- Research origins and artistic history of artifacts
- Develop storylines and themes and organize displays and exhibitions
- Co-ordinate the storage of collections and the setting up of displays and exhibitions
- Oversee the conservation, display and circulation of collections
- Supervise curatorial assistants and other museum technicians.
- Conservators and curators may specialize in a particular type of collection or material, such as furniture, weapons, books, paintings and musical instruments.

*Employment requirements*

- A master's degree in library science or a master's degree in library and information studies or a master's degree from a program accredited by the American Library Association is required.
- On-the-job training is provided.

*Additional information*

- Progression to museum or art gallery management positions is possible with experience.

## 5113 Archivists

Archivists manage, process, store and disseminate information contained in an organization's archives. They acquire, store and research textual material, pictures, maps, architectural documents, electronic materials, films and videos, and sound recordings and multimedia materials. Archivists are employed in archives, in the public and para-public sectors and in private sector organizations.

*Inclusion(s)*

- place holder

*Illustrative example(s)*

- archivist
- historical archivist
- multimedia archivist

*Exclusion(s)*

- Archive assistants (see 5211 Library and public archive technicians)
- Librarians (see 5111 Librarians)
- Library, archive, museum and art gallery managers (see 0511 Library, archive, museum and art gallery managers)
- Medical archivist (see 1253 Records management technicians)

*Main duties*

Archivists perform some or all of the following duties:

- Develop policies and procedures for managing current and semicurrent archives, in particular corporate cataloguing systems, records scheduling and disposal, and finding aids
- Design programs for managing, disseminating and storing archives of all types (documents, photographs, maps, audio-visual materials, manuscripts, etc.)
- Plan the computerized management of archives and the management of electronic archives
- Appraise and acquire archival materials to build and develop an archival collection for research purposes
- Authenticate documents and records, and research the origins and significance of archival materials
- Organize noncurrent archives and develop cataloguing and retrieval systems to allow access to archival materials
- Assist people with their searches.

*Employment requirements*

- Conservators require a master's degree in art conservation or Completion of a three-year college program in conservation technology and several years of experience in conservation work.
- Curators require a master's or bachelor's degree in museology, art history or a field related to their specific area of work.

*Additional information*

- Progression to archive management positions is possible with experience.

## 512 Writing, translating and related communications professionals

This minor group includes writers, editors, journalists, translators and interpreters. They are employed by advertising, consulting, publishing and multimedia/new-media companies; magazines, journals, newspapers, radio and television networks and stations; sections within companies and government departments that produce publications such as newsletters, handbooks, manuals and Web sites; translation and interpretation agencies; and international organizations, schools, courts, and social service agencies; or they may be self-employed.

### 5121 Authors and writers

Authors and writers plan, research and write books, scripts, storyboards, plays, essays, speeches, manuals, specifications and other non-journalistic articles for publication or presentation. They are employed by advertising agencies, governments, large corporations, private consulting firms, publishing firms, multimedia/new-media companies and other establishments, or they may be self-employed.

*Illustrative example(s)*

- advertising copywriter
- copywriter
- essayist
- interactive media writer
- literary writer
- medical writer
- novelist
- playwright
- poet
- scientific writer
- script writer
- specifications writer
- speech writer
- technical writer
- writer

*Exclusion(s)*

- Editors (see 5122 Editors)
- Journalists (see 5123 Journalists)
- Professional occupations in advertising, marketing and public relations (see 1123 Professional occupations in advertising, marketing and public relations)
- Song writers (see 5132 Conductors, composers and arrangers)
- Translators, terminologists and interpreters (see 5125 Translators, terminologists and interpreters)

*Main duties*

The following is a summary of the main duties of some occupations in this unit group:

- Novelists, playwrights, script writers, poets and other creative writers
- Conceive and write novels, plays, scripts, poetry and other material for publication or presentation
- May conduct research to establish factual content and to obtain other necessary information.
- Technical writers
- Analyze material, such as specifications, notes and drawings and write manuals, user guides and other documents to explain clearly and concisely the installation, operation and maintenance of software and electronic, mechanical and other equipment.
- Copywriters
- Study and determine selling features of products and services and write text for advertisements and commercials.
- Authors and writers may specialize in a particular subject or type of writing.

*Employment requirements*

- A bachelor's degree with a minor in archival studies or A university degree with a certificate in archival studies is required.
- A master's degree in archival studies, archival studies and information science, library science or history may be required.
- Copywriters usually require a university degree or college diploma in French, English, marketing, advertising or another discipline.
- Creative writing programs are offered by universities and colleges.
- Technical writers usually require a university degree in the area of specialization, such as computer science or engineering.

## 5122 Editors

Editors review, evaluate and edit manuscripts, articles, news reports and other material for publication, broadcast or interactive media and co-ordinate the activities of writers, journalists and other staff. They are employed by publishing firms, magazines, journals, newspapers, radio and television networks and stations, and by companies and government departments that produce publications such as newsletters, handbooks, manuals and Web sites. Editors may also work on a freelance basis.

*Illustrative example(s)*

- advertising editor
- associate editor
- contributing editor
- copy editor
- editor
- editorial consultant
- literary editor
- manuscript editor
- medical editor
- news editor
- news service editor
- sports editor
- technical editor

*Exclusion(s)*

- Authors and writers (see 5121 Authors and writers)
- Editorial assistants (see 1452 Correspondence, publication and regulatory clerks)
- Film editors (see 5131 Producers, directors, choreographers and related occupations)
- Journalists (see 5123 Journalists)
- Managing editors (see 0512 Managers - publishing, motion pictures, broadcasting and performing arts)
- Map editors (see 2255 Technical occupations in geomatics and meteorology)
- Sound editors (see 5225 Audio and video recording technicians)
- Translators-revisers (see 5125 Translators, terminologists and interpreters)

*Main duties*

Editors perform some or all of the following duties:

- Evaluate suitability of manuscripts, articles, news copy and wire service dispatches for publication, broadcast or electronic media and recommend or make changes in content, style and organization
- Read and edit copy to be published or broadcast to detect and correct errors in spelling, grammar and syntax, and shorten or lengthen copy as space or time requires
- Confer with authors, staff writers, reporters and others regarding revisions to copy
- Plan and implement layout or format of copy according to space or time allocations and significance of copy
- Plan and co-ordinate activities of staff and assure production deadlines are met
- Plan coverage of upcoming events and assign work accordingly

- Write or prepare introductions, marketing and promotional materials, bibliographic references, indexes and other text
- May negotiate royalties with authors and arrange for payment of freelance staff.
- Editors may specialize in a particular subject area, such as news, sports or features, or in a particular type of publication, such as books, magazines, newspapers or manuals.

*Employment requirements*

- A bachelor's degree in English, French, journalism or a related discipline is usually required.
- Membership in a guild or union related to the occupation may be required.
- Several years of experience in journalism, writing, publishing or a related field are usually required.
- Talent and ability, as demonstrated by a portfolio of work, are important hiring criteria.

*Additional information*

- Progression to supervisory and management positions, such as editor-in-chief or managing editor, is possible with experience.

## 5123 Journalists

Journalists research, investigate, interpret and communicate news and public affairs through newspapers, television, radio and other media. Journalists are employed by radio and television networks and stations, newspapers and magazines. Journalists may also work on a freelance basis.

*Illustrative example(s)*

- book reviewer
- broadcast journalist
- columnist
- correspondent
- cyberjournalist
- investigative reporter
- journalist
- network reporter
- news commentator
- newspaper critic
- reporter

*Exclusion(s)*

- Announcers and other broadcasters (see 5231 Announcers and other broadcasters)
- Authors and writers (see 5121 Authors and writers)
- Editors (see 5122 Editors)
- Photojournalists (see 5221 Photographers)

*Main duties*

Journalists perform some or all of the following duties:

- Collect local, national and international news through interviews, investigation and observation
- Write news stories for publication and broadcast
- Receive, analyze and verify news and other copy for accuracy
- Arrange for and conduct interviews as part of research and for radio and television programs
- Research and report on developments in specialized fields such as medicine, science and technology
- Prepare regular feature columns and stories on specialized topics
- Write editorials and commentaries on topics of current interest to stimulate public interest and express the views of a publication or broadcasting station
- Write critical reviews of literary, musical and other artistic works based on knowledge, judgement and experience.
- Journalists may specialize in print, broadcast or Webcast media, in particular issues such as political affairs or entertainment news, or in a particular geographic area.

*Employment requirements*

- Membership in the Editors Association of Canada may be required.

*Additional information*

- Experienced reporters may advance to editorial positions (print media) or become producers (broadcast media).

## 5125 Translators, terminologists and interpreters

Translators translate written material from one language to another. Interpreters translate oral communication from one language to another during speeches, meetings, conferences, debates and conversation, or in court or before administrative tribunals. Terminologists conduct research to itemize terms connected with a certain field, define them and find equivalents in another language. Sign language interpreters use sign language to translate spoken language and vice versa during meetings, conversations, television programs or in other instances. Translators, terminologists and interpreters are employed by government, private translation and interpretation agencies, in-house translation services, large private corporations, international organizations and the media, or they may be self-employed. Sign language interpreters work in schools and courts, and for social service agencies, interpretation services, government services and television stations, or they may be self-employed.

*Inclusion(s)*

- cultural interpreter
- transliterator

*Illustrative example(s)*

- community interpreter
- conference interpreter
- court interpreter
- interpreter
- legal terminologist
- literary translator
- localiser
- medical terminologist
- sign language interpreter
- terminologist
- translator
- translator adaptor
- translator-reviser

*Exclusion(s)*

- Authors and writers (see 5121 Authors and writers)
- Editors (see 5122 Editors)
- Language instructors (see 4021 College and other vocational instructors)
- Linguists (see 4169 Other professional occupations in social science, n.e.c.)

*Main duties*

Translators and translator-revisers perform some or all of the following duties:

- Translate a variety of written material such as correspondence, reports, legal documents, technical specifications and textbooks from one language to another, maintaining the content, context and style of the original material to the greatest extent possible
- Localize software and accompanying technical documents to adapt them to another language and culture
- Revise and correct translated material
- May train and supervise other translators.

Terminologists perform some or all of the following duties:

- Identify the terminology used in a field of activity

- Conduct terminological research on a given subject or in response to inquiries for the preparation of glossaries, terminology banks, technological files, dictionaries, lexicons and resource centres, and add to terminological databases
- Manage, update and circulate linguistic information collected from terminological databases
- Provide consultative services to translators, interpreters and technical writers preparing legal, scientific or other documents that require specialized terminologies.

Interpreters perform some or all of the following duties:

- Interpret oral communication from one language to another aloud or using electronic equipment, either simultaneously (as the speaker speaks), consecutively (after the speaker speaks) or whispered (speaking in a low whisper to one or two persons as the speaker is talking)
- Provide interpretation services in court or before administrative tribunals
- May interpret language for individuals and small groups travelling in Canada and abroad
- May interpret for persons speaking an Aboriginal or foreign language in a variety of circumstances
- May train other interpreters.
- Translators, terminologists and interpreters specialize in two languages, such as French and English, the official languages of Canada. They may also specialize in another language and one of the official languages. The main areas of specialization include administrative, literary, scientific and technical translation. Interpreters may specialize in court, parliamentary or conference interpretation.

Sign language interpreters perform some or all of the following duties:

- Translate sign language to a spoken language and vice versa either simultaneously or consecutively.
- Sign language interpreters work in French and Langue des signes québécoise (LSQ) or in English and American Sign Language (ASL).

*Employment requirements*

- A university degree in translation with a specialization in translation, interpretation or terminology in two languages including at least one of the two official languages or A university degree in a related discipline such as languages, linguistics, philology and courses in linguistic transfer and two years' experience as a full-time translator working in two languages, at least one of which is an official language or Five years of experience as a full-time translator working in two languages, at least one of which is an official language, are required.
- A university degree or college diploma in journalism or a related field such as communications is usually required.
- Certification on dossier or by examination from the Canadian Translators, Terminologists and Interpreters Council may be required for translators, terminologists and interpreters.
- Editors who specialize in a specific subject matter may be required to have training in that subject.
- Fluency in three languages is usually required for translators or interpreters working in an international context.
- Membership in a provincial or territorial association of translators, interpreters and terminologists may be required.
- Sign language interpreters may require a certificate or certification evaluation in LSQ or ASL.
- Sign language interpreters require a college training program or a university certificate in sign language interpretation.

## 513 Creative and performing artists

This minor group includes producers, directors, choreographers, conductors, composers, arrangers, musicians, singers, dancers, actors, comedians, painters, sculptors and other visual artists. They are employed by radio and television stations, broadcast departments, and film, television and recording studios; advertising and record production companies; ballet, dance and opera companies; orchestras, bands, choirs, concert halls, theatres, lounges and night clubs; television, theatre, film and other production companies; and dance, acting and art schools; or they may be self-employed.

## 5131 Producers, directors, choreographers and related occupations

This unit group includes producers, directors, choreographers and others who oversee and control the technical and artistic aspects of film, television, video game, radio, dance and theatre productions. They are employed by film production companies, radio and television stations, video game companies, broadcast departments, advertising companies, sound recording studios, record production companies and dance companies. They may also be self-employed.

*Inclusion(s)*

- film editor
- video illustrator - multimedia work

*Illustrative example(s)*

- artistic director - motion picture
- choreographer
- cyber-choreographer
- director - motion picture
- director of photography
- filmmaker
- multimedia audio producer
- producer - performing arts
- producer-director
- radio producer
- record producer
- stage director - performing arts
- technical director - broadcasting
- television producer

*Exclusion(s)*

- Managers - publishing, motion pictures, broadcasting and performing arts (see 0512 Managers - publishing, motion pictures, broadcasting and performing arts)
- Photographers, graphic arts technicians and technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts (see 522 Photographers, graphic arts technicians and technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Film, radio, television and video game producers plan, organize and control the various stages and scheduling involved in the production of presentations, motion pictures, television shows and radio programs; engage directors and other production personnel and supervise all technical personnel, and determine the treatment, scope and scheduling of production; maintain production archives, negotiate royalties and may plan and control the budget pertaining to a particular production.
- Directors interpret scripts and direct the mise-en-scène; select and direct the actors, extras and technical crew; advise the cast and crew on the interpretation and delivery of the performance; direct rehearsals, filmings, broadcasts and performances; and confer with crew and specialists throughout production and post-production to achieve desired presentation.
- Choreographers create dances for film, theatre and television performances that convey stories, ideas and moods, and direct rehearsals for dancers to achieve desired interpretation.
- Art directors plan, organize and direct the artistic aspects of motion pictures, video games, stage productions and television shows by overseeing the design of sets, costumes, furnishings and props to create portrayals of period and setting.
- Film editors edit motion picture film and arrange film segments into sequences to achieve continuity and desired dramatic, comedic and thematic effects.
- Record producers plan and co-ordinate the production of musical recordings, direct musicians and singers during rehearsals and recordings and manage technicians involved in duplicating, dubbing and mastering of recordings.

- Directors of photography co-ordinate and direct the photography of motion pictures, supervise camera operators and other crews and determine lighting, lenses, camera angles, backgrounds and other elements to achieve desired visual effect.

*Employment requirements*

- A university degree or college diploma in dance, or a period of study at a school of dance and Extensive training with a dance company are usually required.
- A university degree or college diploma in music or the recording arts and Experience in a technical or production occupation in the recording arts are usually required.
- A university degree or college diploma in the performing arts, broadcasting, journalism, business administration, theatre production or film studies and Experience in a technical or production occupation in motion pictures, broadcasting or theatre are usually required.
- Choreographers
- Directors of photography
- Membership in a provincial association of sign language interpreters may be required.
- Producers, directors and film editors
- Record producers
- Use of professional titles may be regulated in some provinces.

*Additional information*

- Membership in a related guild or union may be required.

## 5132 Conductors, composers and arrangers

This unit group includes those who conduct bands and orchestras, compose musical works and arrange instrumental and vocal compositions. They are employed by symphony and chamber orchestras, bands, choirs, sound recording companies, and orchestras for ballet and opera performances, or they may be self-employed.

*Inclusion(s)*

- artistic director - music
- lyricist
- musical director
- place holder

*Illustrative example(s)*

- arranger
- bandmaster
- choir director
- composer
- conductor
- music adapter
- orchestrator
- singer-songwriter-composer
- songwriter

*Exclusion(s)*

- Musicians and singers (see 5133 Musicians and singers)
- Producers, directors, choreographers and related occupations (see 5131 Producers, directors, choreographers and related occupations)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Conductors select and interpret musical works and lead bands, orchestras and choirs during rehearsals and performances.
- Composers create musical compositions such as television and film scores, theme music, songs, symphonies and music for interactive products such as video games.

- Arrangers adapt and modify musical compositions to convey desired themes and to suit particular instrumental and vocal performances.
- Conductors, composers and arrangers usually specialize in a particular type of music such as classical, country, jazz or popular music.

*Employment requirements*

- A period of specialized study related to conducting, composing or arranging is usually required.
- A university degree in music or completion of a program at a music academy, conservatory or school of music is usually required.
- A university degree or college diploma in film studies or cinematography and Experience in camera operation or another technical occupation in video or motion picture production are usually required.
- Demonstrated creative ability is required for all occupations in this unit group.

*Additional information*

- Composers often work as arrangers.

## 5133 Musicians and singers

This unit group includes musicians, singers and teachers of vocal and instrumental music. Musicians and singers perform with orchestras, choirs, opera companies and popular bands in establishments such as concert halls, lounges and theatres and in film, television and recording studios. Music teachers teach in conservatories, academies and private homes.

*Illustrative example(s)*

- accompanist
- church organist
- guitar player
- instrumentalist
- music teacher - musicians
- musician
- opera singer
- percussionist
- recording artist
- rock singer
- singer
- vocalist

*Exclusion(s)*

- Conductors, composers and arrangers (see 5132 Conductors, composers and arrangers)
- Elementary school music teachers (see 4032 Elementary school and kindergarten teachers)
- Professors of music (see 4011 University professors and lecturers)
- Secondary school music teachers (see 4031 Secondary school teachers)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Musicians play one or more instruments as soloists or as members of a musical group before audiences or for recording purposes.
- Singers sing musical arrangements as soloists or as members of vocal groups before audiences or for recording purposes.
- Teachers of music or voice teach technique, interpretation and music theory to students through private or group lessons.
- Musicians and singers usually specialize in specific types of music such as classical, country, ethnic, jazz, opera or popular music.

*Employment requirements*

- Experience as a musician is required.

- Members of orchestras and other professional classical musicians and singers usually require a university degree in music.
- Musical and creative talent and ability, as demonstrated by a portfolio of work, are important hiring criteria.
- Musical training from a university or college or through private instruction is usually required.

## 5134 Dancers

This unit group includes dancers and dance teachers. Dancers are employed by ballet and dance companies, television and film productions and night clubs and similar establishments. Dance teachers are employed by dance academies and dance schools.

*Inclusion(s)*
- performance movement teacher

*Illustrative example(s)*
- ballet dancer
- ballet teacher
- ballroom dancing teacher
- dance instructor
- dancer
- folkloric dancer
- interpretative dancer
- tap dancer

*Exclusion(s)*
- Choreographers (see 5131 Producers, directors, choreographers and related occupations)
- Other performers, n.e.c. (see 5232 Other performers, n.e.c.)

*Main duties*

Dancers perform some or all of the following duties:
- Practise and rehearse dance routines under direction or instruction to achieve desired interpretation and presentation
- Perform dances as soloists or as members of groups before live audiences or for film or television
- Train and exercise to maintain the required levels of ability and fitness
- May choreograph their own performances.

Dance teachers perform some or all of the following duties:
- Teach dance technique and artistic interpretation to amateur and professional individuals and groups
- Teach the techniques, cultural origins and symbolic meanings of Aboriginal, ethnic and folkloric dances
- Teach recreational dancing lessons such as ballroom dancing
- Prepare dance students for specific auditions and performances.
- Dancers may specialize in specific types of dance such as ballet, ballroom, folk, jazz or modern.

*Employment requirements*
- A university degree or college diploma in dance or Graduation from a private dance school or academy may be required.
- Membership in a guild or union related to the occupation or type of performance may be required.
- Musical talent and ability, as demonstrated during an audition, are important hiring criteria.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.

## 5135 Actors and comedians

Actors and comedians perform roles in motion picture, television, theatre and radio productions to entertain a variety of audiences. They are employed by motion picture, television, theatre and other production companies. This unit group includes acting teachers employed by private acting schools.

*Inclusion(s)*
- standardized patient

*Illustrative example(s)*
- acting teacher - private or studio
- actor/actress
- comedian
- drama teacher - private or studio
- narrator

*Exclusion(s)*
- (5231 - Announcers and other broadcasters) (see 5231 Announcers and other broadcasters)
- Dancers (see 5134 Dancers)
- Drama professors (see 4011 University professors and lecturers)
- Musicians and singers (see 5133 Musicians and singers)
- Other performers, n.e.c. (see 5232 Other performers, n.e.c.)

*Main duties*

Actors and comedians perform some or all of the following duties:
- Study and rehearse lines, gestures and expressions to interpret a role
- Portray roles in video or motion picture productions, television shows, theatre productions, radio dramas, commercials and other productions or perform the narration
- Sing or dance as required by specific roles
- Perform comedy acts in nightclubs alone or as members of comedy troupes
- Improvise a role.

Acting teachers perform some or all of the following duties:
- Train students in interpretation of scripts, speech, movement, and dramatic theory
- Prepare acting students for specific auditions and performances.

*Employment requirements*
- Acting programs are offered at universities, colleges and private acting schools.
- Dance teachers usually require experience as dancers.
- Demonstrated ability, based on an audition or previous acting roles, is an important hiring criteria.
- Membership in a guild or union related to the occupation or type of performance may be required.

## 5136 Painters, sculptors and other visual artists

Painters, sculptors and other visual artists create original paintings, drawings, sculptures, engravings and other artistic works. They are usually self-employed. This group also includes art instructors and teachers, who are usually employed by art schools.

*Illustrative example(s)*
- art teacher (except primary, secondary and post-secondary education)
- artist
- artistic painter
- portrait painter
- sculptor
- silkscreen artist
- watercolourist

*Exclusion(s)*
- Art teachers - elementary school (see 4032 Elementary school and kindergarten teachers)
- Art teachers - secondary school (see 4031 Secondary school teachers)
- Artisans and craftspersons (see 5244 Artisans and craftspersons)
- Fine arts professor - university (see 4011 University professors and lecturers)
- Fine arts teacher - college level (see 4021 College and other vocational instructors)

- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)

*Main duties*

Painters, sculptors and other visual artists perform some or all of the following duties:

- Painters create drawings, paintings and other artwork using oils, pastels, watercolours, charcoal, ink and other media.
- Sculptors create sculptures, statues and other three-dimensional artwork by shaping, carving and working with materials such as clay, ice, paper, stone, wood or metal.
- Art instructors and teachers teach students the techniques and methods of drawing, painting, sculpting and other forms of artistic expression.

*Employment requirements*

- Acting teachers usually require experience as actors.
- Creative ability and talent, as demonstrated by a portfolio of work, and knowledge of the safe use of materials, tools and equipment are required. Art programs are offered at universities, colleges and private art schools.
- Membership in a guild or union may be required.

## 52 Technical occupations in art, culture, recreation and sport

This major group comprises technical occupations in art, culture, recreation and sport. It includes technical occupations in libraries, public archives, museums and art galleries; in motion picture production, graphic arts, broadcasting and the performing arts; and as photographers, announcers, creative designers, craftspersons, athletes, coaches, sports officials, sport and fitness instructors and some performers.

## 521 Technical occupations in libraries, public archives, museums and art galleries

This minor group includes library and public archive technicians and technical occupations related to museums and art galleries. They are employed by libraries, public archives, museums, and galleries; retail settings; parks, aquariums, zoos, interpretive centres, botanical gardens, cultural centres, nature sanctuaries, historic and heritage sites, and other locations; or they may be self-employed.

## 5211 Library and public archive technicians

Library and public archive technicians assist users in accessing library or archive resources, assist in describing new acquisitions, participate in archive processing and storage, and conduct reference searches. They are employed by libraries and public archives.

*Inclusion(s)*

- archive assistant
- archive attendant
- elementary school librarian
- place holder
- place holder
- place holder
- secondary school librarian

*Illustrative example(s)*

- archive technician
- library technician
- technical indexer - library

*Exclusion(s)*

- Archivists (see 5113 Archivists)
- Librarians (see 5111 Librarians)
- Library assistants and clerks (see 1451 Library assistants and clerks)

- Records management technicians (see 1253 Records management technicians)

*Main duties*

Library and public archive technicians perform some or all of the following duties:

- Library technicians
- Assist library users in accessing books, films, photographs, maps, documents, electronic materials and other library materials
- Catalogue new library acquisitions under the direction of a librarian
- Perform manual and on-line reference searches and make interlibrary loans for users
- Assist librarians in giving tours and providing children's and other specialized library programs.
- Public archive technicians
- Assist in developing inventories, forms and finding aids
- Implement and update classification plans and records scheduling and disposal plans
- Apply standards and policies for storage of records and archival materials
- Codify and classify archival materials
- Put archival materials on microfilm or in databases
- Transfer materials from current to semi-current status or put into permanent storage
- Purge, sort, reduce and sample archives
- Research and retrieve archival materials
- Participate in instructing and assisting users
- Ensure that proper procedures are followed in the use of computerized document management systems.

*Employment requirements*

- A college diploma in fine arts techniques may be required.
- Art instructors and teachers may be required to have a university degree or college diploma in a field related to art.

## 5212 Technical occupations related to museums and art galleries

This unit group includes workers who classify and catalogue museum artifacts and gallery works of art, construct and install exhibits and displays, restore, maintain and store museum and gallery collections, frame artwork, and perform other functions in support of curatorial and conservation activities. They are employed in museums and galleries. Picture framers and taxidermists may also be employed in retail settings or may be self-employed. This unit group also includes museum and other interpreters who conduct guided tours. They are employed by art galleries, museums, parks, aquariums, zoos, interpretive centres, botanical gardens, cultural centres, nature sanctuaries, historic heritage sites, and other locations.

*Inclusion(s)*

- curatorial assistant
- historical interpreter
- museum interpreter
- nature site interpreter
- place holder
- zoo interpreter

*Illustrative example(s)*

- art gallery preparator
- conservation technician - museums and art galleries
- heritage interpreter
- museology technician
- museum extension officer
- museum objects cataloguer
- museum registrar
- museum technician
- paintings restoration technician
- picture framer - museum and art gallery

- restoration technician - museum
- taxidermist

*Exclusion(s)*
- Assistant curators (see 5112 Conservators and curators)
- Museum exhibit designers (see 5243 Theatre, fashion, exhibit and other creative designers)
- Tour and travel guides (see 6531 Tour and travel guides)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:
- Conservation and restoration technicians assist in the restoration and conservation of artifacts under the direction of a conservator.
- Curatorial assistants assist in the research, handling and storage of artifacts.
- Museum interpreters conduct tours of museums, gallery exhibitions and historical, heritage and other sites, answer inquiries and provide information concerning exhibits or sites.
- Museum extension officers assist with the planning and development of travelling exhibitions and special events.
- Museology technicians protect and care for cultural artifacts and collections during exhibitions, while in transit and in storage.
- Museum registrars and cataloguers classify and assign registration numbers to artifacts and supervise inventory control.
- Preparators construct displays and dioramas, build models, install artifacts in displays and prepare artifacts for storage and shipping.
- Picture framers fabricate custom frames, measure and cut mats, mat enhancements and glass, and mount paintings, photographs and other art work.
- Taxidermists prepare, stuff and mount skins of animals for preservation, scientific or display purposes.
- Technical museum and gallery workers may specialize in a specific type of collection.

*Employment requirements*
- Library technicians usually require completion of a two- to three-year college program in library and information technology.
- Public archive technicians require completion of a college diploma or certificate program in archive and document management technology.

*Additional information*
- Museum interpreters may require specific scientific or academic credentials for employment by some museums, nature centres or other sites.

## 522 Photographers, graphic arts technicians and technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts

This minor group includes photographers, graphic arts technicians and technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts. They are employed by photographic and sound recording studios; museums; government; television and radio networks and stations; television, motion picture, video and concert production companies; communications providers; newspapers and magazines; publishing, advertising, marketing, printing and multimedia companies; broadcast equipment companies; theatre, stage and dance companies; clubs, hotels, bands and movie theatres; concert promoters; and educational establishments; or they may be self-employed.

### 5221 Photographers

Photographers operate still cameras to photograph people, events, scenes, materials, products and other subjects. Photographers are employed by photographic studios, newspapers, magazines, museums and government, or they may be self-employed.

*Inclusion(s)*

- multimedia picture illustrator
- photojournalist
- police photographer

*Illustrative example(s)*

- aerial photographer
- commercial photographer
- forensic photographer
- industrial photographer
- photographer
- portrait photographer
- scientific photographer

*Exclusion(s)*

- Film and video camera operators (see 5222 Film and video camera operators)

*Main duties*

Photographers perform some or all of the following duties:

- Study requirements of a particular assignment and decide on type of camera, film, lighting and background accessories to be used
- Determine picture composition, make technical adjustments to equipment and photograph subject
- May operate scanners to transfer photographic images to computers
- May operate computers to manipulate photographic images
- May adapt existing photographic images and create new digitized images to be included in multimedia/new media products
- May use delicate instruments, such as optical microscopes attached to cameras
- May process exposed film
- May use airbrush, computer or other techniques to retouch negatives
- Medical photographers may work closely with medical illustrators.
- Photographers may specialize in areas such as portrait photography, commercial photography, scientific photography, forensic photography, medical photography, digitized photography, multimedia photography or photojournalism.

*Employment requirements*

- A bachelor's degree in visual arts with specialization in photography or Completion of specialized training in photography in high school, college or specialized training schools or Extensive on-the-job training under the supervision of a photographer is required.
- For other occupations in this unit group, completion of a college program in museum technology or conservation technology or Completion of other technical or on-the-job training programs related to the work are required.
- Registrars, cataloguers and interpreters may require a university degree in a field related to museum and gallery work.

## 5222 Film and video camera operators

Film and video camera operators operate motion picture and video cameras and related equipment to record news, live events, films, videos and television broadcasts. They are employed by television networks and stations, motion picture and video production companies and in-house communications facilities of large corporations.

*Illustrative example(s)*

- assistant camera operator
- camera operator
- electronic news gathering (ENG) camera operator
- film camera operator
- motion picture camera operator

- studio camera operator
- television camera operator
- video camera operator

*Exclusion(s)*

- Audio and video recording technicians (see 5225 Audio and video recording technicians)
- AV (audiovisual) assistants (see 5227 Support occupations in motion pictures, broadcasting, photography and the performing arts)
- Filmmakers and directors of photography (see 5131 Producers, directors, choreographers and related occupations)
- Photographers (see 5221 Photographers)
- Video artists (see 5136 Painters, sculptors and other visual artists)
- Video transmission operators (see 5224 Broadcast technicians)

*Main duties*

Film and video camera operators perform some or all of the following duties:

- Meet with director and senior members of camera crew to discuss assignment and determine filming sequences, camera movements and picture composition
- Select and set up camera equipment to be used and attach lens, filters and film magazine to camera
- Adjust focus, exposure, lighting and other camera settings
- Operate film or video camera to record news, live events, films, videos and television broadcasts
- Label and record contents of exposed film, and complete report sheets
- Test, maintain and store equipment.

*Employment requirements*

- Creative and technical ability, as demonstrated by a portfolio of work, are required.
- Experience in, or knowledge of computerized photography or digital imaging may be required.

*Additional information*

- Progression to supervisory or director of photography positions is possible with additional training and experience.

## 5223 Graphic arts technicians

Graphic arts technicians assist in conceptualizing a project, interpreting design specifications or sketches, preparing the page make-up, lay-out and lettering, and preparing production materials for press, electronic or multimedia publishing. They are employed by publishing, communications, advertising, marketing, printing and multimedia establishments, and by television and film production companies. They may also be self-employed.

*Inclusion(s)*

- animation camera operator
- poster painter

*Illustrative example(s)*

- animated cartoon technician
- animation painter
- computer graphics technician
- graphics technician
- multimedia graphic design technician

*Exclusion(s)*

- Camera, platemaking and other prepress occupations (see 9472 Camera, platemaking and other prepress occupations)
- Correspondence, publication and regulatory clerks (see 1452 Correspondence, publication and regulatory clerks)
- Desktop publishing specialists (see 1423 Desktop publishing operators and related occupations)

- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)

*Main duties*

Graphic arts technicians perform some or all of the following duties:
- Review the graphic designer's instructions
- Produce or assist in developing and producing design concepts
- Capture elements such as titles, text, drawings, illustrations, graphics, lettering and colour harmonization, using a computer
- Produce computerized images and drawings
- Digitize images using peripherals and transform them using retouching systems, graphic palettes or specialized software
- Perform the layout, page make-up and placement using the conceptual mock-ups provided
- Produce proofs and camera-ready materials and prepare film and any other prepress materials
- Paint or ink individual cells of 2-D or 3-D animated drawings according to animator's specifications using an electronic palette
- Lay out, draw or paint letters, figures, logos and designs for windows, advertisements, billboards, vehicles, books and publications using specialized software or painting equipment
- Work in an interdisciplinary environment.

*Employment requirements*
- A college diploma in commercial or graphic arts, computer graphics or animated design is required.
- Completion of a college or technical program in broadcasting, audio-visual technology or a related field and Experience as an assistant camera operator are usually required.
- Creative and technical ability, as demonstrated by a portfolio of work and experience, may be required.

*Additional information*
- Progression to graphic designer positions is possible with experience or supplementary training.

## 5224 Broadcast technicians

Broadcast technicians install, set up, test, operate and repair electronic equipment used to record and transmit live and taped radio and television programs and to produce audio and video streaming broadcasts for the Internet. They are employed by radio and television broadcasting networks and stations, by broadcast equipment companies and by Internet-based communication providers.

*Inclusion(s)*
- broadcast engineer

*Illustrative example(s)*
- broadcast technician
- broadcast transmitter operator
- broadcasting switcher
- master control room (MCR) equipment operator - broadcasting
- master control room (MCR) technician - broadcasting
- mobile broadcasting equipment operator
- regional transmitter technician
- short-wave receiving station technician
- video transmission operator

*Exclusion(s)*
- Audio and video recording technicians (see 5225 Audio and video recording technicians)
- Film and video camera operators (see 5222 Film and video camera operators)
- Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts (see 5226 Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts)

*Main duties*

Broadcast technicians perform some or all of the following duties:
- Monitor broadcast quality of live and taped radio and television programs
- Operate and monitor radio and television broadcasting systems to broadcast, receive signals and to regulate clarity and range of sounds and colours of recordings or broadcasts
- Operate broadcast equipment to produce audio and video streaming broadcasts for the Internet
- Make emergency repairs to equipment and substitute programs in case of signal failure
- Maintain, install and troubleshoot a wide variety of broadcast hardware and software
- Set up and operate consoles to pick up and select feed sources from different locations and to air radio or television programs and commercials
- May supervise other broadcast technicians.

*Employment requirements*
- Creative ability and artistic talent, as demonstrated by a portfolio of work, are required.
- Experience or training in multimedia design at a post-secondary, college or technical institution may be required.

## 5225 Audio and video recording technicians

Audio and video recording technicians operate equipment to record, mix and edit sound, music and videotape, for motion pictures, television and radio programs, videos, recordings and live events. They are employed by multimedia companies, film, video and concert production companies, sound recording firms, theatre and dance companies, educational establishments, clubs, hotels, bands, radio stations, television networks and video production and editing companies.

*Inclusion(s)*
- audio engineer - recording studio
- electronic news gathering (ENG) editor
- public address (P.A.) system operator
- radio technician
- sound engineer

*Illustrative example(s)*
- audiovisual (AV) technician
- multimedia sound technician
- postproduction technician
- recording engineer
- recording studio technician
- sound effects editor
- sound mixer
- sound technician
- video and sound recorder
- video recording technician

*Exclusion(s)*
- Broadcast technicians (see 5224 Broadcast technicians)
- Film and video camera operators (see 5222 Film and video camera operators)
- Film editors (see 5131 Producers, directors, choreographers and related occupations)
- Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts (see 5226 Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts)
- Recording studio assistants (see 5227 Support occupations in motion pictures, broadcasting, photography and the performing arts)

*Main duties*

Audio and video recording technicians perform some or all of the following duties:

- Set up, prepare, operate and adjust audio, recording, editing and reproducing equipment to record, edit and reproduce sound input or feed of pre-recorded material from tapes, records, compact discs, digital audio devices, and input from live microphones, satellites or microwave trucks for films, videos, radio and television programs and recordings
- Prepare and operate videotape recording and playback equipment to record videos, television programs, concerts and live events, and to edit video tape after production
- Operate electronic equipment to generate program titles, credits, sub-titles, graphic backgrounds or animation for television programs
- Operate audio consoles or computers, tape machines, microphones and sound processing equipment to mix, combine and edit music and sound at concerts and live events
- Operate dubbing machines to play back edited dialogue, music and sound effect tracks from different sources, in synchronization with motion picture film
- May supervise and co-ordinate the work of other audio and video recording technicians.

*Employment requirements*

- Completion of a college program in broadcast technology or electronics is usually required.
- Senior and supervisory positions in this unit group require experience.

### 5226 Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts

This unit group includes a range of technical, co-ordinating and supervisory workers who co-ordinate and perform specific activities for television, radio and motion picture productions, news broadcasts, theatre and stage productions, and other live or recorded productions. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies, concert promoters and theatre, stage and dance companies.

*Inclusion(s)*

- machinist-electrician
- stage electrician

*Illustrative example(s)*

- costumier
- gaffer
- key grip
- lighting technician
- make-up artist - motion pictures, broadcasting and performing arts
- program co-ordinator - broadcasting
- property master - broadcasting
- settings shop foreman/woman
- special effects technician
- stage manager
- stunt co-ordinator
- theatre technician

*Exclusion(s)*

- Audio and video recording technicians (see 5225 Audio and video recording technicians)
- Broadcast technicians (see 5224 Broadcast technicians)
- Film and video camera operators (see 5222 Film and video camera operators)
- Lighting designers (see 5243 Theatre, fashion, exhibit and other creative designers)
- Support occupations in motion pictures, broadcasting, photography and the performing arts (see 5227 Support occupations in motion pictures, broadcasting, photography and the performing arts)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Floor managers co-ordinate the work of camera operators and other technical staff, and cue announcers, actors and performers during news broadcasts and television program tapings.
- Key grips supervise grips, gaffers and stagehands who rig, place, move and dismantle lights, sets, backdrops, scenery and other stage equipment.
- Gaffers and lighting technicians set up, operate and make repairs to lights and other electrical equipment in studios and on sets and stages.
- Stunt co-ordinators and special effects technicians design and co-ordinate special effects such as fires, explosions and crashes.
- Make-up artists apply cosmetic and special effects make-up on actors and other performers.
- Costumiers study scripts to determine the necessary costumes and oversee the acquisition, fitting and maintenance of costumes.
- Settings shop foremen and forewomen assist in preparing the construction specifications for sets.
- Property masters identify and list the necessary props and place them during rehearsals and performances.

*Employment requirements*

- Completion of a college or other program in recording engineering, audiovisual technology or a related field or Experience as a recording studio assistant is usually required.
- Creative ability, as demonstrated by a portfolio of work, is required for make-up artists.
- Floor managers require a portfolio of work.
- For most occupations in this unit group, completion of a college or university program in broadcasting, theatre arts or a related field and Several years of experience in a related support or assisting occupation in motion pictures, broadcasting or the performing arts are required.
- Make-up artists working in motion pictures, broadcasting and the performing arts may require a training program.
- Senior occupations in this unit group, such as recording and sound engineers, require experience.

*Additional information*

- There may be an overlap in duties among occupations in this unit group, depending on the size of the production or broadcasting studio.

## 5227 Support occupations in motion pictures, broadcasting, photography and the performing arts

This unit group includes workers who perform support duties related to broadcasting and to the production of motion pictures and the performing arts. They are employed by television and radio stations and networks, recording studios, motion picture and video production companies and by theatre and stage companies.

*Inclusion(s)*

- motion picture projectionist
- place holder
- projectionist

*Illustrative example(s)*

- boom grip
- camera crane operator
- dresser - motion pictures, broadcasting and performing arts
- lighting assistant
- production assistant
- prompter
- props person
- script assistant
- set builder
- special effects assistant
- spotlight operator
- stagehand

*Exclusion(s)*
- Audio and video recording technicians (see 5225 Audio and video recording technicians)
- Broadcast technicians (see 5224 Broadcast technicians)
- Film and video camera operators (see 5222 Film and video camera operators)
- Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts (see 5226 Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:
- Camera crane operators set up, assemble, adjust, maintain and replace reels and projector equipment; detect and repair mechanical and electrical problems; and change and install an electronic control panel using automated equipment.
- Production assistants provide support to the director and producer, and are responsible for various aspects of production such as preparing schedules, setting up equipment, and making travel arrangements to various shooting locations.
- Motion picture projectionists check the condition of the copy; set up and load film reels on movie theatre projection systems, adjust focus, sound levels and other projector and theatre settings; and maintain projection equipment.
- Props persons and set builders assemble, repair, place, build and oversee props.
- Script assistants distribute scripts to actors; keep detailed notes of all actions, positions and camera angles; and photograph and date scenes.
- Grips and riggers rig, place, move and dismantle sets, backdrops, scenery and other stage equipment.
- Dressers clean, maintain, transport and store costumes, and assist performers to dress in costumes.

*Employment requirements*
- Completion of secondary school is usually required.
- For gaffers, lighting technicians, key grips and other stage technicians, completion of a college program or other specialized training program in technical production for theatre is required.
- Membership in a related union may be required.
- Most occupations in this unit group require completion of college courses in broadcasting, theatre arts or a related field or A period of on-the-job training.

*Additional information*
- Progression to related technical occupations in motion pictures, broadcasting or the performing arts is possible with additional training or experience.
- There may be an overlap in duties among occupations in this unit group, depending on the size of the production or broadcasting studio.

## 523 Announcers and other performers, n.e.c.

This minor group includes announcers, other broadcasters and performers not elsewhere classified. They are employed by radio and television stations and networks; advertising companies; circuses, nightclubs and theatre and other production companies; or they may be self-employed.

### 5231 Announcers and other broadcasters

Announcers and other broadcasters read news, sports, weather, commercial and public service messages and host entertainment and information programs for broadcast on radio or television. They are primarily employed by radio and television stations and networks and by commercial firms that produce advertisements for radio or television.

*Inclusion(s)*
- master of ceremonies (MC)
- place holder
- public address (P.A.) system announcer
- traffic reporter

- weather reporter

*Illustrative example(s)*

- announcer
- broadcaster
- disc jockey - broadcast
- news reader
- radio host/hostess
- sports announcer
- talk show host/hostess
- television host/hostess

*Exclusion(s)*

- Broadcast journalists who prepare and present their own reports (see 5123 Journalists)
- Support occupations in motion pictures, broadcasting, photography and the performing arts (see 5227 Support occupations in motion pictures, broadcasting, photography and the performing arts)

*Main duties*

Announcers and other broadcasters perform some or all of the following duties:

- Select and introduce music, videos and other entertainment material for broadcast, and make commercial and public service announcements
- Act as host/hostess or master of ceremonies, introduce and interview guests and conduct proceedings of shows or programs
- Read news, sports and weather for radio and television
- Report on weather conditions using information provided by weather forecasting services
- Report on traffic conditions by maintaining contact with external sources of information or by observing traffic from air or land vehicle
- May present own material or material prepared by others.

*Employment requirements*

- Certification for projectionists is available, but voluntary, in New Brunswick. In Quebec, projectionists are regulated under operators of electrical machines, cinema equipment.
- Completion of a college radio or television arts program is usually required.
- Practical training, such as work at a college radio station, may be required.
- Projectionists are required to be licensed by their province of employment.

*Additional information*

- Movement to occupations in journalism is possible for those with an educational background in journalism or a related field.

### 5232 Other performers, n.e.c.

This unit group includes circus performers, magicians, models, puppeteers and other performers not elsewhere classified. They are employed by circuses, nightclubs, and theatre, advertising and other production companies, or they may be self-employed.

*Inclusion(s)*

- deejay (DJ) - turntablist

*Illustrative example(s)*

- acrobat
- busker
- circus performer
- clown
- fashion model
- magician

- puppeteer
- ventriloquist

*Exclusion(s)*

- Actors and comedians (see 5135 Actors and comedians)
- Dancers (see 5134 Dancers)
- Musicians and singers (see 5133 Musicians and singers)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Buskers entertain passers-by on sidewalks and in parks with magic tricks, juggling acts, short dramatic works, music and other entertaining displays.
- Circus performers such as trapeze artists, high-wire walkers, clowns and jugglers entertain audiences with thrilling and humorous acts.
- Magicians and illusionists perform sleight-of-hand tricks, disappearing acts and other illusions.
- Fashion models display clothing and merchandise in commercials, advertisements and fashion shows and pose for artists and photographers.
- Puppeteers operate puppets and marionettes.

*Employment requirements*

- Circus performers and acrobats may require a period of study at a circus school.
- Completion of modelling courses is usually required for models.
- Membership in a guild or union related to the occupation or type of performance may be required.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.
- Training for other occupations in this unit group is often obtained under the guidance of a practitioner.

*Additional information*

- There is little mobility between the different occupations in this unit group.

## 524 Creative designers and craftspersons

This minor group includes graphic designers, illustrators, interior designers and decorators, theatre, fashion, exhibit and other creative designers, various artisans and craftspersons, and patternmakers for textile, leather and fur products. They are employed by advertising, graphic design, communications, construction, architectural, interior design and multimedia production companies; retail establishments, museums, hospitals, airlines and hotel and restaurant chains; festivals, performing arts and broadcasting companies; clothing, textile and manufacturing companies; and artisan guilds, colleges, private studios and recreational organizations; or they may be self-employed.

## 5241 Graphic designers and illustrators

Graphic designers conceptualize and produce graphic art and visual materials to effectively communicate information for publications, advertising, films, packaging, posters, signs and interactive media such as Web sites and CDs. They are employed by advertising and graphic design firms, by establishments with advertising or communications departments and by multimedia production companies, or they may be self-employed. Graphic designers who are also supervisors, project managers or consultants are included in this unit group. Illustrators conceptualize and create illustrations to represent information through images. They are almost solely self-employed.

*Illustrative example(s)*

- 3D animation artist
- advertising designer
- animator - animated films
- bank note designer
- cartoonist
- commercial artist

- graphic artist
- graphic designer
- graphic designer - multimedia
- illustrator
- layout designer
- medical illustrator
- multimedia illustrator
- scientific illustrator

*Exclusion(s)*
- Advertising managers (see 0124 Advertising, marketing and public relations managers)
- Graphic arts technicians (see 5223 Graphic arts technicians)
- Interior designers and interior decorators (see 5242 Interior designers and interior decorators)
- Painters, sculptors and other visual artists (see 5136 Painters, sculptors and other visual artists)

*Main duties*

Graphic designers and illustrators perform some or all of the following duties:
- Graphic designers
- Consult with clients to establish the overall look, graphic elements and content of communications materials in order to meet their needs
- Determine the medium best suited to produce the desired visual effect and the most appropriate vehicle for communication
- Develop the graphic elements that meet the clients' objectives
- Prepare sketches, layouts and graphic elements of the subjects to be rendered using traditional tools, multimedia software and image processing, layout and design software
- Estimate cost of materials and time to complete graphic design
- Use existing photo and illustration banks and typography guides or hire an illustrator or photographer to produce images that meet clients' communications needs
- Establish guidelines for illustrators or photographers
- Co-ordinate all aspects of production for print, audio-visual or electronic materials, such as Web sites, CDs and interactive terminals
- Co-ordinate sub-contracting
- Work in a multidisciplinary environment
- Supervise other graphic designers or graphic arts technicians.
- Illustrators
- Consult with clients to determine the nature and content of illustrations in order to meet their communications needs
- Develop and produce realistic or representational sketches and final illustrations, by hand or using computer-assisted design (CAD) software, for printed materials such as books, magazines, packaging, greeting cards and stationery
- Assist in developing storyboards for electronic productions such as multimedia, interactive and digital products and television advertising and productions
- Produce 2-D and 3-D animated drawings or computer illustrations
- May adapt existing illustrations.
- Illustrators may specialize in a particular field such as illustrations for children, advertising, editorials, humour, or medical, scientific or technical illustration, or multimedia design.

*Employment requirements*
- A university degree in visual arts with specialization in graphic design, commercial art, graphic communications or cartooning or Completion of a college diploma program in graphic arts is required.
- Experience or training in multimedia design at a post-secondary, college or technical institution may be required.
- Membership in a guild or union related to the occupation or type or performance may be required.
- Talent and ability, as demonstrated during an audition, are important hiring criteria.

*Additional information*
- Progression to management or senior design positions is possible with experience.
- The title "registered graphic designer" is recognized by law in Ontario.

## 5242 Interior designers and interior decorators

Interior designers and interior decorators conceptualize and produce aesthetic, functional and safe designs for interior spaces in residential, commercial, cultural, institutional and industrial buildings. They are employed by architectural and interior design firms, retail establishments, construction companies, hospitals, airlines, hotel and restaurant chains, and other establishments, or they may be self-employed.

*Inclusion(s)*
- home staging consultant
- space management consultant

*Illustrative example(s)*
- aircraft interior designer
- interior decorator
- interior design technician
- interior designer
- kitchen designer
- office space planner
- retail space planner

*Exclusion(s)*
- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)
- Industrial designers (see 2252 Industrial designers)
- Lighting designers (see 5243 Theatre, fashion, exhibit and other creative designers)
- Painters and decorators (except interior decorators) (see 7294 Painters and decorators (except interior decorators))
- Theatre, fashion, exhibit and other creative designers (see 5243 Theatre, fashion, exhibit and other creative designers)

*Main duties*

Interior designers and interior decorators perform some or all of the following duties:
- Consult with clients to determine needs, preferences, safety requirements and purpose of space
- Develop detailed plans and 3-D models showing arrangement of walls, dividers, displays, lighting and other fixtures using computer-assisted design (CAD) software and graphics software
- Develop plans, elevations, cross sections and detailed drawings, and advise on selection of colours, finishes and materials, floor and wall coverings, window treatments, interior and exterior lighting, furniture and other items, taking into account ergonomic and occupational health standards
- Estimate costs and materials required and may advise on leasing, real estate and marketing
- Prepare plans and specifications for the final interior designs in accordance with current practices and codes
- Work in a multidisciplinary environment
- May direct site work crews and subcontractors.
- Interior designers are experts in the area of interior architecture, construction materials and building codes. They may specialize in designing interiors for residential, commercial, institutional, cultural and industrial buildings and for aircraft, ships or trains, trade shows and exhibitions. Interior decorators may specialize in decorating residential or commercial interior spaces, home staging, colour consulting and home organizing.

*Employment requirements*
- A university degree or college diploma in interior design is usually required.
- Certification by a provincial institute or association is required to use protected titles related to interior designers in all provinces except Prince Edward Island.

- Creative ability and artistic talent, as demonstrated by a portfolio of work, are required for graphic designers and illustrators.
- In addition to the arts, training in biology, engineering, architecture or a scientific field is usually required for medical, technical and scientific illustrators.
- Interior decorators
- Interior designers
- The National Council for Interior Design Qualification (NCIDQ) examination may be required after six years of combined study and experience.

## 5243 Theatre, fashion, exhibit and other creative designers

Designers in this unit group conceptualize and produce designs for film, television, theatre and video productions, garments and textiles, displays and exhibits, and for other creative items such as jewellery and trophies. Theatre designers are employed by performing arts and broadcasting companies and by festivals; fashion designers are employed by clothing and textile companies or may be self-employed; and exhibit designers are employed by museums and retail establishments. Other creative designers in this unit group are employed by manufacturing establishments or may be self-employed.

*Inclusion(s)*

- exhibit designer - museums and art galleries
- facilities designer
- fashion co-ordinator
- fashion stylist
- visual merchandiser

*Illustrative example(s)*

- clothing designer
- costume designer
- couturier - haute couture
- display designer
- fabric designer
- fashion designer
- fur designer
- jewellery designer
- lighting designer
- museum exhibit designer
- shoe designer
- trophy designer
- window display designer

*Exclusion(s)*

- Diorama makers - museums and galleries (see 5212 Technical occupations related to museums and art galleries)
- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)
- Industrial designers (see 2252 Industrial designers)
- Interior designers and interior decorators (see 5242 Interior designers and interior decorators)
- Patternmakers - textile, leather and fur products (see 5245 Patternmakers - textile, leather and fur products)
- Tailors, dressmakers, furriers and milliners (see 6342 Tailors, dressmakers, furriers and milliners)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Theatre designers design and create settings, scenic environments, properties, costumes and lighting for theatre, film and video productions, operas and ballets.
- Fashion designers design and create clothing and accessories for men, women and children.

- Exhibit designers plan and develop permanent and temporary or moveable exhibits and displays for museum exhibitions, trade shows, conventions, retail spaces and other exhibitions.
- Theatre designers may specialize in costume, lighting or set design; fashion designers may specialize in men's, women's or children's apparel or in different lines such as sportswear, footwear or formal wear.

*Employment requirements*

- A college certificate or diploma in interior decoration is usually required.
- A university degree in fine arts or visual arts with specialization in theatre design, clothing design or exhibit design or Completion of a college or art school program in theatre design, clothing design or exhibit design is required.
- Membership in the Canadian Decorators' Association is available to qualified decorators.

*Additional information*

- Designers may advance to supervisory and management positions.

## 5244 Artisans and craftspersons

This unit group includes those who use manual and artistic skills to design and make ornamental objects, pottery, stained glass, jewellery, rugs, blankets, other handicrafts and artistic floral arrangements. Makers of musical instruments are also included in this unit group. Most craftspersons are self-employed. Artistic floral arrangers are usually employed in florist shops and floral departments of retail establishments, or may be self-employed. Craft instructors are also included in this unit group and are employed by artisan guilds, colleges, private studios and recreational organizations.

*Illustrative example(s)*

- artistic floral arranger
- carver
- craft instructor (except education)
- craftsperson
- glass blower
- lace weaver - arts and crafts
- leather worker
- metal arts worker
- potter
- screen printing artisan
- silversmith
- stained glass artist
- stringed instrument maker
- totem pole carver
- weaver - arts and crafts

*Exclusion(s)*

- Cabinetmakers (see 7272 Cabinetmakers)
- Fabric-making occupations in manufacturing (see 9442 Weavers, knitters and other fabric making occupations)
- Jewellers, jewellery and watch repairers and related occupations (see 6344 Jewellers, jewellery and watch repairers and related occupations)
- Painters, sculptors and other visual artists (see 5136 Painters, sculptors and other visual artists)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Carvers use hand tools and woodworking machines to produce carvings from wood, stone and other materials and to carve ornamental designs into wooden furniture and other objects.
- Glass blowers design and create glass objects using blowpipes and artisan's hand tools and equipment.
- Metal arts workers design metal jewellery, utensils, implements, wall hangings and other objects and create them from gold, silver, copper, pewter and other metals.

- Potters design ornamental and ceramic functional earthenware pieces and create them using clay, moulds, potter's wheels and other equipment, glazing materials and kilns.
- Stained glass artists design stained glass windows, lampshades and other objects and cut, paint, fire and assemble pieces of stained glass to create such products.
- Instrument makers construct instruments by applying their knowledge of wood, ebonite, metal properties and other materials and instrument design using hand and power tools.
- Weavers use hands or loom to interlace strips of flexible material such as wool, cotton, silk, grasses, bark and rawhide to make baskets, wreaths, wall hangings, clothing, rugs, blankets and other objects.
- Craft instructors prepare craftmaking lessons, gather the required working materials and demonstrate and teach craftmaking techniques.
- Artistic floral arrangers design bouquets, corsages, sprays, wreaths and other floral arrangements and select natural and artificial flowers, foliage and decorative accessories to create arrangements or other floral items to suit customers' requirements.

*Employment requirements*

- Creative ability, as demonstrated by a portfolio of work, is required.
- Skills are often learned through apprenticeship with a master craftsperson.
- Training programs are offered by artisan guilds, colleges and private studios.
- Use of computer-aided design (CAD) software may be required.

## 5245 Patternmakers - textile, leather and fur products

Patternmakers in this unit group create master patterns for the production of garments, footwear and other textile, leather or fur products. They are employed by pattern manufacturers, textile, leather or fur products manufacturers, or they may be self-employed.

*Illustrative example(s)*

- dress patternmaker
- embroidery patternmaker
- fur garment patternmaker
- garment patternmaker
- leather products patternmaker
- shoe patternmaker
- textile products patternmaker

*Exclusion(s)*

- Supervisors, textile, fabric, fur and leather products processing and manufacturing (see 9217 Supervisors, textile, fabric, fur and leather products processing and manufacturing)

*Main duties*

Patternmakers in this unit group perform some or all of the following duties:

- Examine sketches, samples of articles and specifications of designs to determine number, size and shape of pattern parts and assess the amount of cloth required to make a product
- Draw, lay out and cut master patterns of products
- Outline parts of patterns on paper and mark patterns to indicate details such as the placement of pockets and pleats on garments, decorative stitching on shoe parts or eyelets on canvas products
- Create pattern size variations from master patterns using computer or drafting instruments, or forward patterns to computer operator to create pattern size variations
- Lay out master patterns on fabric and cut sample patterns
- Mark size, identification, style and sewing instructions on sample patterns.

*Employment requirements*

- A college diploma in fine craft techniques may be required.
- Completion of secondary school is required.
- Creative ability and talent, as demonstrated by a portfolio of work, and knowledge of safe handling of material, tools and equipment are required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 525 Athletes, coaches, referees and related occupations

This minor group includes athletes, coaches, sports officials, referees, and program leaders and instructors in recreation, sport and fitness. They are employed by national, provincial and local sports organizations, leagues and sporting commissions; professional and amateur sports teams; universities; community centres, sports and fitness clubs, outdoor centres, resorts, recreational facilities, health care facilities, retirement homes and correctional institutions; and government departments, private businesses and tourism associations; or they may be self-employed.

### 5251 Athletes

Athletes participate in competitive sports events on an amateur or professional basis. They play team sports such as hockey, baseball, football and lacrosse; or compete in individual sports such as skiing, figure skating, boxing or track and field; or in games such as poker or chess. Athletes are employed by professional team organizations or they may be self-employed.

*Inclusion(s)*

- competitor - gambling
- gamer - video games

*Illustrative example(s)*

- athlete
- baseball player
- boxer
- figure skater
- football player
- golfer
- harness race driver
- hockey player
- jockey
- professional athlete
- skier
- sprinter
- track athlete

*Exclusion(s)*

- Coaches (see 5252 Coaches)
- Sports instructors (see 5254 Program leaders and instructors in recreation, sport and fitness)
- Sports officials and referees (see 5253 Sports officials and referees)

*Main duties*

Athletes perform some or all of the following duties:

- Train under the direction of a coach or trainer to qualify for competition
- Attend scheduled practice and training sessions
- Participate in local, regional, provincial, national or international competitions and sporting events
- Assess performance after an event to identify strengths and weaknesses.

*Employment requirements*

- College courses in design and patternmaking or One to two years of on-the-job training are required.
- Courses in computer-assisted patternmaking may be required.
- Demonstrated ability in a particular sport, or type of game, is required.
- Extensive training under the supervision of a coach is required.

## 5252 Coaches

Coaches prepare and train individual athletes or teams for competitive events. They are employed by national and provincial sports organizations, professional and amateur sports teams, sports clubs and universities or they may be self-employed. This unit group also includes sports scouts who identify and recruit athletes for professional sports teams. They are employed by professional sports organizations.

*Illustrative example(s)*

- coach
- figure skating coach
- football scout
- gymnastics coach
- head coach
- hockey coach
- hockey scout
- national team coach
- soccer coach
- sports scout
- swimming coach
- volleyball coach

*Exclusion(s)*

- Athletes (see 5251 Athletes)
- Athletic therapists (see 3144 Other professional occupations in therapy and assessment)
- Program leaders and instructors in recreation, sport and fitness (see 5254 Program leaders and instructors in recreation, sport and fitness)
- Sports officials and referees (see 5253 Sports officials and referees)

*Main duties*

Coaches and sports scouts perform some or all of the following duties:

- Coaches
- Identify strengths and weaknesses of athletes or teams
- Plan, develop and implement training and practice sessions
- Nurture and develop athletes' potential skills and abilities
- Develop, plan and co-ordinate competitive schedules and programs
- Motivate and prepare athletes or teams for competitive events or games
- Formulate competitive strategies, develop game plans and direct athletes and players during games or athletic events
- Analyse and evaluate athletes' or teams' performances and modify training programs.
- Sports scouts
- Identify and recruit developing athletes for professional sports teams
- Observe and evaluate prospective athletes' skills and performance, and review their past records
- File reports on scouting assessments and recommendations with professional team employers.

*Employment requirements*

- A background combining athletic training and college or university studies is strongly recommended.
- A degree in physical education may be required.
- Certification with a particular sports federation may be required.
- Coaches
- Completion of the National Coaching Certificate program is usually required for individual and team sports coaches in all sports.
- Experience in and technical knowledge of the sport is required.
- National Coaching Certificate Level 3 is usually required for provincial coaches.
- National Coaching Certificate Level 4 is usually required for coaches of national team athletes.

## 5253 Sports officials and referees

Sports officials and referees observe and enforce rules and regulations governing sporting events, athletic games and sports competitions. They are employed by national, provincial and local sporting commissions, organizations and leagues.

*Illustrative example(s)*
- athletics judge
- clerk of the course - racetrack
- figure skating judge
- goal judge
- harness racing starter
- racetrack timer
- referee
- sports linesman/woman
- sports official
- umpire

*Exclusion(s)*
- Coaches (see 5252 Coaches)
- Program leaders and instructors in recreation, sport and fitness (see 5254 Program leaders and instructors in recreation, sport and fitness)

*Main duties*

Sports officials and referees perform some or all of the following duties:
- Officiate at sporting events or athletic competitions to maintain standards of play and to ensure that game rules and safety regulations are observed
- Record lapsed time and keep scores during events or competitions
- Judge the performance of competitors, award points, impose penalties for infractions and determine results
- Compile scores and other athletic records
- Establish and maintain rapport with coaches, players and organizing committees
- Verify credentials of athletes or animals engaged in sports or related special events, and respond to written protests.

*Employment requirements*
- Experience in and technical knowledge of the sport is required.
- Sports scouts

## 5254 Program leaders and instructors in recreation, sport and fitness

Program leaders and instructors in recreation, sport and fitness lead and instruct groups and individuals in recreational, sports, fitness or athletic programs. They are employed by community centres, sports and fitness clubs, outdoor centres, resorts, recreational facilities, health care facilities, retirement homes, correctional institutions, government departments, private businesses, tourism associations and similar establishments.

*Inclusion(s)*
- lifeguard
- place holder
- place holder
- place holder
- search and rescue crew member - sports and recreation
- ski patroller

*Illustrative example(s)*
- aerobics instructor

- camp counsellor
- certified personal trainer
- day camp leader
- fitness appraiser
- fitness instructor
- gymnastics teacher
- personal trainer
- playground worker
- recreation program leader
- recreation technician
- riding instructor
- ski instructor
- ski patrol
- swimming instructor - sports

*Exclusion(s)*

- Other instructors (see 4216 Other instructors)
- Recreation and sports supervisors (see 4167 Recreation, sports and fitness policy researchers, consultants and program officers)
- Recreation, sports and fitness program and service directors (see 0513 Recreation, sports and fitness program and service directors)

*Main duties*

Program leaders and instructors in recreation, sport and fitness perform some or all of the following duties:

- Plan and carry out recreational, athletic, fitness and sports activities
- Assemble supplies and sports and game equipment
- Demonstrate and instruct athletic, fitness or sports activities and techniques
- Instruct groups and individuals in arts, crafts and similar activities and lead groups and individuals in recreational or leisure programs
- Attend to clients with special needs
- Provide lifestyle awareness information
- Conduct therapeutic recreational or athletic activities
- Monitor recreational, sports or fitness activities to ensure safety and provide emergency or first aid assistance when required
- Enforce safety rules and regulations
- Assist with co-ordination of special events
- Schedule activities, keep logs, maintain records and prepare reports
- May train and supervise staff
- May maintain and repair sports equipment.

*Employment requirements*

- Certification is usually required in a specific area of recreational, sports or fitness activity, such as ski instructor or personal trainer, or in first aid or emergency care.
- Completion of a college program in recreation or physical education or extensive experience in a specific recreational or sports program activity is usually required.
- Completion of secondary school is usually required.
- Sports officials require certification by and registration with a sport governing body or commission.
- Sports referees require completion of an officiating program offered by a sport governing body.

## 6 Sales and service occupations

This category contains retail and wholesale sales occupations and customer and personal service occupations related to a wide range of industries, such as accommodation and food services, travel, tourism and cleaning services.

Sales and service occupations can be linked, for the most part, to formal post-secondary or occupation-specific training programs. Others are characterized by periods of formal on-the-job training. Apprenticeship training is available for some specialized service occupations. Progression from sales and service occupations to positions of increased responsibility, or supervision, usually requires occupational experience and may require completion of related training programs.

## 62 Retail sales supervisors and specialized sales occupations

This major group comprises supervisory occupations in retail sales, and sales occupations requiring a related post-secondary degree or diploma, or specialized training courses and, in some cases, licensure. It includes retail sales supervisors, technical sales specialists in wholesale trade, retail and wholesale buyers, insurance agents and brokers, real estate agents and salespersons and financial sales representatives.

## 621 Retail sales supervisors

This minor group includes retail sales supervisors. They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public, rental service establishments and businesses involved in door-to-door soliciting and telemarketing.

### 6211 Retail sales supervisors

Retail sales supervisors supervise and co-ordinate the activities of workers in the following unit groups: Retail Salespersons (6421), Cashiers (6611), Store Shelf Stockers, Clerks and Order Fillers (6622) and Other Sales Related Occupations (6623). They are employed by stores and other retail businesses, wholesale businesses that sell on a retail basis to the public, rental service establishments and businesses involved in door-to-door soliciting and telemarketing.

*Illustrative example(s)*

- department store supervisor
- head cashier
- liquor store supervisor
- produce department supervisor
- rental service supervisor
- retail sales route supervisor
- telemarketing supervisor

*Exclusion(s)*

- Retail and wholesale trade managers (see 0621 Retail and wholesale trade managers)
- Service supervisors (see 631 Service supervisors)
- Supervisors of technical salespersons (see 6221 Technical sales specialists - wholesale trade)

*Main duties*

Retail sales supervisors perform some or all of the following duties:

- Supervise and co-ordinate sales staff and cashiers
- Assign sales workers to duties and prepare work schedules
- Authorize payments and the return of merchandise
- May perform the same duties as workers supervised
- Resolve issues that may arise, including customer requests, complaints and supply shortages
- Maintain specified inventory and order merchandise
- Prepare reports regarding sales volumes, merchandising and personnel matters
- Hire and train or arrange for the training of new sales staff and monitor and report on performance
- Ensure the visual standards and image of the store are maintained, such as store displays, signage and cleanliness
- May perform key holding and managerial duties if required, such as opening and closing the store, managing escalated complaints, developing and implementing marketing strategies, and signing for deliveries

*Employment requirements*

- Demonstrated ability in a particular recreational, sports or fitness discipline is required.
- Fitness appraiser certification may be required for fitness appraisers.

*Additional information*

- Progression to management positions in retail trade is possible with additional training or experience.

## 622 Technical sales specialists in wholesale trade and retail and wholesale buyers

This minor group includes technical sales specialists in wholesale trade and retail and wholesale buyers. They are employed by establishments that produce and provide technical goods and services and retail and wholesale establishments; or they may be self-employed.

### 6221 Technical sales specialists - wholesale trade

Technical sales specialists, wholesale trade, sell a range of technical goods and services, such as scientific, agricultural and industrial products, electricity, telecommunications services and computer services, to governments and to commercial and industrial establishments in domestic and international localities. They are employed by establishments that produce or provide technical goods and services, such as pharmaceutical companies, industrial equipment manufacturing companies, grain elevators, computer services firms, engineering firms and hydroelectric companies, or they may be self-employed technical sales specialists/agents who contract their services to other companies. Technical sales specialists who are supervisors are included in this unit group.

*Inclusion(s)*

- grain elevator operator
- sales engineer

*Illustrative example(s)*

- aircraft sales representative
- communication equipment sales representative
- construction equipment sales representative
- electricity sales representative
- grain elevator district manager
- heavy equipment sales representative
- industrial supplies sales representative
- medical instruments sales agent
- sales engineer - technical support
- software sales representative
- technical sales representative
- technical sales supervisor
- technical support specialist - wholesale trade

*Exclusion(s)*

- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Retail salespersons (see 6421 Retail salespersons)
- Sales and account representatives - wholesale trade (non-technical) (see 6411 Sales and account representatives - wholesale trade (non-technical))

*Main duties*

Technical sales specialists perform some or all of the following duties:

- Maintain and grow sales relationships with existing clients
- Identify and solicit potential clients
- Assess clients' needs, recommend or assist in the selection of appropriate goods or services, and negotiate prices or other sales terms
- Provide input into product design where goods or services must be tailored to suit clients' needs

- Develop sales presentations, proposals, or other materials to illustrate benefits from use of good or service
- Estimate costs of installing and maintaining equipment or service
- Prepare and administer sales contracts and maintain customer records
- Consult with clients after sale to resolve problems and to provide ongoing support
- Troubleshoot technical problems related to equipment
- May offer training in the operation and maintenance of equipment
- May supervise the activities of other technical staff and sales specialists.
- Technical sales specialists usually specialize in a particular line of goods or services.

*Employment requirements*

- A university degree or college diploma in a program related to the product or service is usually required.
- Completion of secondary school is usually required.
- Experience in sales or in a technical occupation related to the product or service may be required.
- Fluency in a specific foreign language, and/or foreign work or travel experience may be required for technical sales specialists seeking employment with companies that import or export technical goods or services.
- Previous retail sales experience as a retail salesperson or sales clerk, cashier, telemarketer, door-to-door salesperson or rental agent is usually required.

*Additional information*

- Extensive company training programs for technical sales specialists may be provided by employers.
- Progression to sales management positions is possible with additional training or experience.

## 6222 Retail and wholesale buyers

Retail and wholesale buyers buy merchandise for resale by retail or wholesale establishments and are usually responsible for the merchandising operations of retail or wholesale establishments. Retail and wholesale buyers who are supervisors and those who are assistants are included in this unit group.

*Inclusion(s)*

- merchandiser
- place holder

*Illustrative example(s)*

- appliance buyer
- assistant buyer
- beverage taster and buyer
- buyer - retail
- buyer - wholesale
- chief buyer
- clothing buyer
- food buyer
- produce buyer

*Exclusion(s)*

- Purchasing agents and officers (see 1225 Purchasing agents and officers)

*Main duties*

Retail and wholesale buyers perform some or all of the following duties:

- Purchase merchandise for resale by retail or wholesale establishments
- Review requirements of establishment and determine quantity and type of merchandise to purchase
- Study market reports, trade periodicals and sales promotion materials and visit trade shows, showrooms, factories and product design events
- Select the merchandise which best fits the establishment's requirements
- Interview suppliers and negotiate prices, discounts, credit terms and transportation arrangements
- Oversee distribution of merchandise to outlets and maintain adequate stock levels

- Establish and maintain contact with suppliers
- May supervise the work of other retail buyers.
- Retail and wholesale buyers may specialize in a particular merchandise line.

*Employment requirements*

- A driver's licence and a good driving record may be required
- A university degree or college diploma in business, marketing or a related program is usually required.
- Completion of secondary school is required.
- Technical sales supervisors require experience as a technical sales specialist.

*Additional information*

- Progression to management positions in retail trade, sales, marketing or advertising is possible with additional training or experience.
- Retail and wholesale buyers may specialize through experience or product-related training courses.

## 623 Insurance, real estate and financial sales occupations

This minor group includes insurance agents and brokers, real estate agents and salespersons, and financial sales representatives. They are employed by insurance companies, brokerages, banks, credit unions, trust companies and similar financial institutions; in the real estate industry; or they may be self-employed.

## 6231 Insurance agents and brokers

Insurance agents and brokers sell life, automobile, property, health and other types of insurance to individuals, businesses and public institutions. Insurance agents are employed by individual insurance companies or are independent representatives of specific insurance companies. Insurance brokers are employed by brokerage firms, or may work in partnerships or hold sole proprietorship. Supervisors of insurance agents are included in this unit group.

*Illustrative example(s)*

- insurance agent
- insurance broker
- insurance sales representative
- insurance sales supervisor

*Exclusion(s)*

- Insurance managers (see 0121 Insurance, real estate and financial brokerage managers)
- Insurance underwriters (see 1313 Insurance underwriters)
- Supervisors, finance and insurance office workers (see 1212 Supervisors, finance and insurance office workers)

*Main duties*

Insurance agents and brokers perform some or all of the following duties:

- Sell automobile, fire, health, life, property, marine, aircraft and other types of insurance to clients
- Establish client insurance coverage, calculate premiums and establish method of payment
- Provide information concerning group and individual insurance packages, the range of risk coverage, benefits paid and other policy features
- Ensure appropriate forms, medical examinations and other policy requirements are completed
- Monitor insurance claims and respond to clients' enquiries
- Identify and solicit potential clientele.

*Employment requirements*

- Completion of secondary school is usually required.
- Previous work experience in retail or wholesale establishments is usually required.
- Supervisors and senior buyers require experience in the occupation supervised or in a particular merchandise line.

*Additional information*

- Completion of educational courses through the Financial Advisors Association of Canada (Advocis) allows for various levels of professional designations for insurance and financial advisors.
- Completion of educational programs through the Insurance Institute of Canada entitles agents to professional recognition as a Chartered Insurance Professional (CIP) or a Fellow Chartered Insurance Professional (FCIP).
- Progression to insurance management positions is possible through experience.

## 6232 Real estate agents and salespersons

Real estate agents and salespersons act as agents for the sale or purchase of houses, apartments, commercial buildings, land and other real estate and are employed in the real estate industry.

*Illustrative example(s)*

- commercial real estate agent
- real estate agent
- real estate agent supervisor
- real estate sales representative
- residential real estate agent

*Exclusion(s)*

- Assessors, valuators and appraisers (see 1314 Assessors, valuators and appraisers)
- Insurance, real estate and financial brokerage managers (see 0121 Insurance, real estate and financial brokerage managers)
- Mortgage brokers (see 1114 Other financial officers)
- Rental agents (see 1224 Property administrators)
- Right-of-way agents (see 1225 Purchasing agents and officers)

*Main duties*

Real estate agents and salespersons perform some or all of the following duties:

- Solicit property sales listings from prospective vendors
- Assist vendors in selling property by establishing asking price, advertising the property, listing the property with listing services and conducting open houses for prospective buyers
- Assist prospective buyers in selecting, visiting, inspecting and making offers of purchase on real estate properties
- Advise clients on market conditions, prices, mortgages, legal requirements and related matters
- Draw up sales agreements for approval of purchaser and seller
- May rent or lease properties on behalf of clients.
- Real estate agents and salespersons may specialize in residential, commercial, industrial/institutional or rural real estate sales.

*Employment requirements*

- Completion of secondary school is required.
- Licensure by the insurance governing body in the province or territory of employment is required.
- On-the-job training and insurance industry courses and training programs are provided and are required for employment.

*Additional information*

- Real estate agents and salespersons normally work on a commission basis.
- Real estate agents may operate independently by obtaining a broker's licence in accordance with the regulations of the province of employment. A broker's licence is required to become a manager in real estate.

## 6235 Financial sales representatives

Financial sales representatives sell basic deposit, investment and loan products and services to individuals and businesses. They work in banks, credit unions, trust companies and similar financial institutions.

*Inclusion(s)*
- debt counsellor

*Illustrative example(s)*
- credit officer
- financial services officer
- financial services representative
- loan officer
- mortgage officer
- sales associate - personal banking

*Exclusion(s)*
- Banking, insurance and other financial clerks (see 1434 Banking, insurance and other financial clerks)
- Credit and loan managers (see 0122 Banking, credit and other investment managers)
- Customer services representatives - financial institutions (see 6551 Customer services representatives - financial institutions)
- Other financial officers (see 1114 Other financial officers)

*Main duties*

Financial sales representatives perform some or all of the following duties:
- Open new personal and non-personal accounts, and provide access to automated banking machine, telephone banking and online banking services
- Interview applicants for personal, mortgage, student and business loans
- Promote the sale of deposit, investment, credit and loan products and services
- Assist clients by proposing solutions to address financial objectives such as business expansion, debt management, investment and other financial goals
- Research and evaluate loan applicant's financial status, references, credit and ability to repay the loan
- Complete credit and loan documentation
- Submit credit and loan applications to branch or credit manager with recommendations for approval or rejection; or approve or reject applications within authorized limits ensuring that credit standards of the institution are respected
- Prepare statements on delinquent accounts and forward irreconcilable accounts for collector action
- Review and update credit and loan files
- Act as joint custodian for cash and securities.

*Employment requirements*
- A bachelor's degree or college diploma related to commerce or economics may be required.
- A mutual funds licence is usually required.
- Completion of a loan or credit training program, ranging from six to twelve months, is usually required.
- Completion of a real estate training course is required.
- Completion of secondary school and extensive general banking experience is usually required.
- Provincial or territorial licensure in the province or territory of employment is required.
- Registration with the securities regulatory authority in the province or territory of employment is usually required.

*Additional information*
- Progression to credit and loan management positions is possible with experience.
- Progression to higher levels of financial planning and wealth management is possible with experience.

## 63 Service supervisors and specialized service occupations

This major group comprises supervisory occupations in services, and service occupations requiring post-secondary or job specific training courses, or apprenticeship training. It includes service supervisors, chefs, cooks, butchers, bakers and specialized occupations in personal and customer services.

### 631 Service supervisors

This minor group includes executive housekeepers and supervisors in food service, accommodation, travel, tourism, customer and information services, and cleaning and other services. They are employed by hospitals and other health care establishments; cafeterias, catering companies and other food service establishments; banks, trust companies, credit unions and similar financial institutions; retail establishments, contact centres and insurance, telephone and utility companies; schools and other educational institutions; hotels, motels, commercial and industrial establishments and home, office and specialized cleaning companies; and other service establishments throughout the public and private sectors.

### 6311 Food service supervisors

Food service supervisors supervise, direct and co-ordinate the activities of workers who prepare, portion and serve food. They are employed by hospitals and other health care establishments and by cafeterias, catering companies and other food service establishments.

*Illustrative example(s)*
- cafeteria supervisor
- canteen supervisor
- catering supervisor
- food service supervisor

*Exclusion(s)*
- Banquet captains (see 6513 Food and beverage servers)
- Maîtres d'hôtel and hosts/hostesses (see 6511 Maîtres d'hôtel and hosts/hostesses)
- Mobile canteen service supervisor (see 7305 Supervisors, motor transport and other ground transit operators)
- Restaurant and food service managers (see 0631 Restaurant and food service managers)

*Main duties*

Food service supervisors perform some or all of the following duties:
- Supervise, co-ordinate and schedule the activities of staff who prepare, portion and serve food
- Estimate and order ingredients and supplies required for meal preparation
- Prepare food order summaries for chef according to requests from dieticians, patients in hospitals or other customers
- Establish work schedules and procedures
- Maintain records of stock, repairs, sales and wastage
- Train staff in job duties, and sanitation and safety procedures
- Supervise and check assembly of regular and special diet trays and delivery of food trolleys to hospital patients
- Ensure that food and service meet quality control standards
- May participate in the selection of food service staff and assist in the development of policies, procedures and budgets
- May plan cafeteria menus and determine related food and labour costs.

*Employment requirements*
- Financial services officers who sell regulated financial products and investments are required to be licensed by the appropriate governing body.
- Various training programs and courses are offered by the Canadian Securities Institute and may be required by employers.

## 6312 Executive housekeepers

Executive housekeepers direct and control the operations of housekeeping departments within hotels, hospitals and other establishments.

*Illustrative example(s)*

- assistant executive housekeeper
- executive housekeeper
- hospital executive housekeeper
- hotel executive housekeeper
- housekeeping director
- housekeeping manager

*Exclusion(s)*

- Accommodation service managers (see 0632 Accommodation service managers)
- Facility operation and maintenance managers (see 0714 Facility operation and maintenance managers)
- Housekeeping supervisors (see 6315 Cleaning supervisors)

*Main duties*

Executive housekeepers perform some or all of the following duties:

- Manage the operations of the housekeeping department
- Plan and co-ordinate the activities of housekeeping supervisors and their crews
- Conduct inspections to ensure that departmental standards and health and safety regulations are being met
- Select and purchase equipment and supplies, and maintain inventory
- Arrange for maintenance and repair of equipment and machinery
- Hire, train and supervise housekeeping staff
- Maintain financial records and prepare budgets, payroll and employee schedules.

*Employment requirements*

- Completion of a community college program in food service administration, hotel and restaurant management or related discipline or Several years of experience in food preparation or service are required.
- Completion of secondary school is usually required.
- Completion of secondary school is usually required.

## 6313 Accommodation, travel, tourism and related services supervisors

Supervisors in this unit group supervise and co-ordinate the activities of hotel accommodation service clerks, casino workers, reservation clerks and other travel and accommodations workers not elsewhere classified. They are employed by service establishments throughout the public and private sectors.

*Illustrative example(s)*

- casino dealer supervisor
- hotel clerk supervisor
- reservations supervisor
- tour guide supervisor
- travel clerk supervisor

*Exclusion(s)*

- Accommodation service managers (see 0632 Accommodation service managers)
- Food service supervisors (see 6311 Food service supervisors)

*Main duties*

Accommodation, travel, tourism and related services supervisors perform some or all of the following duties:

- Co-ordinate, assign and review the work of hotel, motel and other accommodation services clerks, casino workers, reservation clerks and other travel and accommodations workers not elsewhere classified
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Hire and train staff in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery, and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

*Employment requirements*

- A university degree or college diploma in hospital management, hotel management or business administration is usually required.
- Completion of college courses related to the area supervised may be required.
- Completion of secondary school is usually required.
- Extensive experience as a cleaning supervisor may substitute for formal education requirements.

*Additional information*

- Progression to managerial positions is possible with additional training or experience.

## 6314 Customer and information services supervisors

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: Customer Service Representatives - Financial Institutions (6551) and Other Customer and Information Services Representatives (6552). They are employed by banks, trust companies, credit unions and similar financial institutions, retail establishments, contact centres, insurance, telephone and utility companies and other establishments throughout the private and public sectors.

*Illustrative example(s)*

- call centre agent supervisor
- contact centre supervisor
- current accounts supervisor
- customer service representatives supervisor - financial services
- information clerks supervisor

*Exclusion(s)*

- Banking, credit and other investment managers (see 0122 Banking, credit and other investment managers)
- Other business services managers (see 0125 Other business services managers)
- Retail and wholesale trade managers (see 0621 Retail and wholesale trade managers)
- Retail sales supervisors (see 6211 Retail sales supervisors)
- Supervisors of airline and railway customer service agents (see 6313 Accommodation, travel, tourism and related services supervisors)
- Supervisors, finance and insurance office workers (see 1212 Supervisors, finance and insurance office workers)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of clerks engaged in the following duties: providing information and customer service; and serving customers in banks, trust companies and other financial institutions
- Examine and verify accuracy of work and authorize routine deposits and withdrawals
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Identify training needs and train workers in job duties and company policies
- Requisition supplies and materials

- Ensure smooth operation of computer systems and equipment and arrange for maintenance and repair work
- May perform the same duties as workers supervised.

*Employment requirements*

- Casino gaming licences are usually required for all casino employees.
- Experience in the occupation supervised is usually required.

## 6315 Cleaning supervisors

Cleaning supervisors supervise and co-ordinate the activities of workers in the following unit groups: Light Duty Cleaners (6731), Specialized Cleaners (6732), and Janitors, Caretakers and Building Superintendents (6733). Cleaning supervisors are employed by hospitals and other health care institutions, hotels, motels, schools and other educational institutions, commercial and industrial establishments, home and office cleaning establishments and by various specialized cleaning companies.

*Illustrative example(s)*

- building cleaning supervisor
- carpet cleaning supervisor
- cleaning supervisor
- head custodian
- housekeeping supervisor
- window washing supervisor

*Exclusion(s)*

- Building maintenance supervisors (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)
- Executive housekeepers (see 6312 Executive housekeepers)
- Specialized cleaners (see 6732 Specialized cleaners)

*Main duties*

Cleaning supervisors perform some or all of the following duties:

- Supervise and co-ordinate the work of light duty, industrial or specialized cleaners and janitors
- Inspect sites or facilities to ensure established safety and cleanliness standards are met
- Recommend or arrange for additional services required such as painting, repair work, renovations or replacement of furnishings and equipment
- Hire and train cleaning staff
- Prepare work schedule and co-ordinate activities with those of other departments
- Prepare budget, estimate costs and keep financial records
- Receive payment for specialized cleaning jobs
- May perform certain cleaning duties.

*Employment requirements*

- Completion of college or industry courses related to financial or customer services may be required.
- Completion of secondary school is usually required.
- Experience in the occupation supervised is required.

## 6316 Other services supervisors

Supervisors in this unit group supervise and co-ordinate the activities of dry cleaning, laundry, ironing, pressing and finishing workers, theatre ushers and attendants, sports and recreation club workers, commissionaires, security guards and other service workers not elsewhere classified. They are employed by service establishments throughout the public and private sectors.

*Illustrative example(s)*

- campground supervisor

- clubhouse attendants supervisor
- commissionaire supervisor
- dry cleaning production supervisor
- dry cleaning supervisor
- foreman/woman - laundry and dry cleaning
- laundry supervisor
- parking lot supervisor
- security guard supervisor
- ski lift attendant supervisor
- theatre attendant supervisor
- ticket taker supervisor

*Exclusion(s)*

- Cleaning supervisors (see 6315 Cleaning supervisors)
- Executive housekeepers (see 6312 Executive housekeepers)
- Managers in customer and personal services, n.e.c. (see 0651 Managers in customer and personal services, n.e.c.)
- Retail sales supervisors (see 6211 Retail sales supervisors)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Co-ordinate, assign and review the work of dry cleaning, laundry, ironing, pressing and finishing workers, theatre ushers and attendants, sports and recreation club workers, commissionaires, security guards and other service workers not elsewhere classified
- Establish work schedules and procedures and co-ordinate activities with other work units or departments
- Resolve work-related problems and prepare and submit progress and other reports
- Hire and train staff in job duties, safety procedures and company policies
- Requisition supplies and materials
- Ensure smooth operation of computer systems, equipment and machinery, and arrange for maintenance and repair work
- Monitor quality and production levels
- May perform the same duties as workers supervised.

*Employment requirements*

- Completion of college courses related to the area supervised may be required.
- Completion of secondary school is usually required.
- Previous experience in a particular area of cleaning is usually required.
- Previous supervisory experience may be required.

*Additional information*

- Progression to managerial positions is possible with additional training or experience.

## 632 Chefs and cooks

This minor group includes chefs and cooks. They are employed by restaurants, hotels, hospitals and other health care institutions, central food commissaries, clubs, educational institutions and other establishments; on ships; and at construction and logging campsites.

### 6321 Chefs

This unit group includes various types of chefs who plan and direct food preparation and cooking activities and who prepare and cook meals and specialty foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, clubs and similar establishments, and on ships.

*Illustrative example(s)*

- chef

- corporate chef
- executive chef
- executive sous-chef
- head chef
- master chef
- pastry chef
- saucier
- sous-chef
- specialist chef

*Exclusion(s)*

- Cooks (see 6322 Cooks)
- Food counter attendants, kitchen helpers and related support occupations (see 6711 Food counter attendants, kitchen helpers and related support occupations)
- Restaurant and food service managers (see 0631 Restaurant and food service managers)

*Main duties*

Chefs perform some or all of the following duties:

- Chefs
- Plan and direct food preparation and cooking activities of several restaurants in an establishment, restaurant chains, hospitals or other establishments with food services
- Consult with clients regarding weddings, banquets and specialty functions
- Plan menus and ensure food meets quality standards
- Estimate food requirements and may estimate food and labour costs
- Supervise activities of sous-chefs, specialist chefs, chefs and cooks
- Arrange for equipment purchases and repairs
- Recruit and hire staff
- May prepare and cook food on a regular basis, or for special guests or functions.
- Sous-chefs
- Supervise activities of specialist chefs, chefs, cooks and other kitchen workers
- Demonstrate new cooking techniques and new equipment to cooking staff
- May plan menus and requisition food and kitchen supplies
- May prepare and cook meals or specialty foods.
- Chefs and specialist chefs
- Prepare and cook complete meals or specialty foods, such as pastries, sauces, soups, salads, vegetables and meat, poultry and fish dishes, and create decorative food displays for special events such as banquets
- Instruct cooks in preparation, cooking, garnishing and presentation of food
- Create new recipes
- Supervise cooks and other kitchen staff
- May plan menus
- May requisition food and kitchen supplies.

*Employment requirements*

- Certification or licensing may be required for some occupations in this group (i.e., supervisors of commissionaires or security guards).
- Completion of secondary school is usually required.
- Cook's trade certification or equivalent credentials, training and experience are required.
- Executive chefs usually require management training and several years of experience in commercial food preparation, including two years in a supervisory capacity and Experience as a sous-chef, specialist chef or chef.
- Experience in the occupation supervised is usually required.
- Sous-chefs, specialist chefs and chefs usually require several years of experience in commercial food preparation.

*Additional information*

- Executive chefs may progress to managerial positions in food preparation establishments.

- The Red Seal endorsement allows for interprovincial mobility.
- There is some mobility among the various types of chefs in this unit group.

## 6322 Cooks

Cooks prepare and cook a wide variety of foods. They are employed in restaurants, hotels, hospitals and other health care institutions, central food commissaries, educational institutions and other establishments. Cooks are also employed aboard ships and at construction and logging campsites.

*Illustrative example(s)*

- apprentice cook
- cook
- dietary cook
- first cook
- grill cook
- hospital cook
- institutional cook
- journeyman/woman cook
- licensed cook
- line cook
- second cook
- short order cook

*Exclusion(s)*

- Chefs (see 6321 Chefs)
- Food counter attendants, kitchen helpers and related support occupations (see 6711 Food counter attendants, kitchen helpers and related support occupations)

*Main duties*

Cooks perform some or all of the following duties:

- Prepare and cook complete meals or individual dishes and foods
- Prepare and cook special meals for patients as instructed by dietitian or chef
- Schedule and supervise kitchen helpers
- Oversee kitchen operations
- Maintain inventory and records of food, supplies and equipment
- May set up and oversee buffets
- May clean kitchen and work area
- May plan menus, determine size of food portions, estimate food requirements and costs, and monitor and order supplies
- May hire and train kitchen staff.
- Cooks may specialize in preparing and cooking ethnic cuisine or special dishes.

*Employment requirements*

- Completion of a three-year apprenticeship program for cooks or Completion of college or other program in cooking or food safety or Several years of commercial cooking experience may be required.
- Completion of secondary school is usually required.
- Red Seal endorsement for cooks is also available to qualified chefs upon successful completion of the interprovincial Red Seal examination.
- The certifications of Certified Working Chef (CWC) and Certified Chef de Cuisine (CCC), administered by the Canadian Culinary Institute (CCI) of the Canadian Culinary Federation (CCFCC) are available to qualified chefs.

*Additional information*

- Progression to supervisory or more senior positions, such as chef, is possible with experience and training.
- The Red Seal endorsement allows for interprovincial mobility.
- There is mobility among the various types of cooks in this group.

## 633 Butchers and bakers

This minor group includes bakers and retail and wholesale butchers, meat cutters and fishmongers. They are employed by supermarkets, grocery stores, butcher shops, fish stores, bakeries, catering companies, hotels, restaurants, hospitals and other institutions; or they may be self-employed.

### 6331 Butchers, meat cutters and fishmongers - retail and wholesale

Butchers, meat cutters and fishmongers in this unit group prepare standard cuts of meat, poultry, fish and shellfish for sale in retail or wholesale food establishments. They are employed in supermarkets, grocery stores, butcher shops and fish stores or may be self-employed. Butchers who are supervisors or heads of departments are included in this unit group.

*Illustrative example(s)*
- butcher apprentice
- fishmonger
- fishmonger - retail
- head butcher - wholesale
- meat cutter - retail or wholesale
- retail butcher
- supermarket meat cutter

*Exclusion(s)*
- Fish cutters (see 9463 Fish and seafood plant workers)
- Industrial butchers and meat cutters, poultry preparers and related workers (see 9462 Industrial butchers and meat cutters, poultry preparers and related workers)
- Retail and wholesale butchery managers (see 0621 Retail and wholesale trade managers)
- Seafood sales clerks (see 6421 Retail salespersons)

*Main duties*

Butchers, meat cutters and fishmongers in this unit group perform some or all of the following duties:
- Cut, trim, and otherwise prepare standard cuts of meat, poultry, fish and shellfish for sale at self-serve counters or according to customers' orders
- Grind meats and slice cooked meats using powered grinders and slicing machines
- Prepare special displays of meat, poultry, fish and shellfish
- Shape, lace and tie roasts and other meats, poultry or fish and may wrap prepared meats, poultry, fish and shellfish
- Manage inventory, keep records of sales and determine amount, product line and freshness of products according to company and customer requirements
- Ensure food storage conditions are adequate
- May supervise other butchers, meat cutters or fishmongers.

*Employment requirements*
- Completion of a college or other meat-and-fish-cutting training program, or a three-year meat cutting apprenticeship may be required.
- Completion of secondary school may be required.
- Red Seal endorsement is also available to qualified cooks upon successful completion of the interprovincial Red Seal examination.
- Trade certification is available, but voluntary, in all provinces and territories.

### 6332 Bakers

Bakers prepare bread, rolls, muffins, pies, pastries, cakes and cookies in retail and wholesale bakeries and dining establishments. They are employed in bakeries, supermarkets, catering companies, hotels, restaurants, hospitals, and other institutions, or they may be self-employed. Bakers who are supervisors are included in this unit group.

*Inclusion(s)*
- chocolate maker

*Illustrative example(s)*
- baker
- baker apprentice
- bakery supervisor
- bread baker
- head baker

*Exclusion(s)*
- Baking machine operators (see 9461 Process control and machine operators, food and beverage processing)
- Pastry chefs (see 6321 Chefs)

*Main duties*

Bakers perform some or all of the following duties:
- Prepare dough for pies, bread, rolls and sweet goods, batters for muffins, cookies and cakes and icings and frostings according to recipes or special customer orders
- Bake mixed doughs and batters
- Frost and decorate cakes or other baked goods
- Ensure quality of products meets established standards
- Draw up production schedule to determine type and quantity of goods to produce
- Purchase baking supplies
- May oversee sales and merchandising of baked goods
- May hire, train and supervise baking personnel and kitchen staff.

*Employment requirements*
- Completion of a three- or four-year apprenticeship program for bakers or Completion of a college or other program for bakers or Several years of commercial baking experience is usually required.
- Completion of secondary school is usually required.
- On-the-job training in food stores is usually provided for retail butchers, meat cutters and fishmongers.
- On-the-job training may be provided.
- Trade certification for meat cutter is available, but voluntary, in Saskatchewan and British Columbia.

*Additional information*
- The Red Seal endorsement allows for interprovincial mobility.

## 634 Specialized occupations in personal and customer services

This minor group includes hairstylists, barbers, tailors, dressmakers, furriers, milliners, shoe repairers, shoemakers, jewellers, jewellery and watch repairers, upholsterers, funeral directors, embalmers and other specialized occupations in personal and customer services. They are employed by hair salons, barber shops, vocational schools and health care establishments; theatre, film and television establishments; dry cleaners, custom shoemaking and clothing alteration establishments; shoe, jewellery, clock and watch and furniture repair shops; garment, jewellery, clock and watch, furniture, aircraft, motor vehicle and other manufacturing companies; retail stores and outlets; and funeral homes; or they may be self-employed.

### 6341 Hairstylists and barbers

Hairstylists and barbers cut and style hair and perform related services. They are employed in hairstyling or hairdressing salons, barber shops, vocational schools, health care establishments and theatre, film and television establishments.

*Illustrative example(s)*
- barber

- barber apprentice
- hair colour technician
- hairdresser
- hairdresser apprentice
- hairstylist
- hairstylist apprentice
- wig stylist

*Exclusion(s)*

- Estheticians, electrologists and related occupations (see 6562 Estheticians, electrologists and related occupations)
- Hairdressing teachers (see 4021 College and other vocational instructors)

*Main duties*

Hairstylists perform some or all of the following duties:

- Suggest hair style compatible with client's physical features or determine style from client's instructions and preferences
- Cut, trim, taper, curl, wave, perm and style hair
- Apply bleach, tints, dyes or rinses to colour, frost or streak hair
- Analyze hair and scalp condition and provide basic treatment or advice on beauty care treatments for scalp and hair
- Clean and style wigs and hair pieces
- Apply hair extensions
- May shampoo and rinse hair
- May perform receptionist duties and order supplies
- May train or supervise other hairstylists, hairstylist apprentices and helpers.

Barbers perform some or all of the following duties:

- Cut and trim hair according to client's instructions or preferences
- Shave and trim beards and moustaches
- May shampoo hair and provide other hair treatment, such as waving, straightening and tinting and may also provide scalp conditioning massages
- May book appointments and order supplies
- May train and supervise other barbers and barber apprentices.

*Employment requirements*

- Barbers
- Completion of a two- or three-year hairstyling apprenticeship program or completion of a college or other program in hairstyling combined with on-the-job training is usually required.
- Completion of a two-year apprenticeship or other barber program is usually required.
- Employers may require applicants to provide a hairstyling demonstration before being hired.
- Hairstylists
- On-the-job training may be substituted for formal education.
- Red Seal endorsement is also available to qualified bakers upon successful completion of the interprovincial Red Seal examination.
- Red Seal endorsement is also available to qualified hairstylists upon successful completion of the interprovincial Red Seal examination.
- Several years of experience may replace formal education and training.
- Some secondary school education is required.
- Some secondary school education is required.
- Trade certification for hairstylists is compulsory in Nova Scotia, Ontario, Manitoba, Saskatchewan, and Alberta, and available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Quebec, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Trade certification is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.

*Additional information*

- The Red Seal endorsement allows for interprovincial mobility.

## 6342 Tailors, dressmakers, furriers and milliners

Tailors, dressmakers and furriers make, alter and repair tailored clothing, dresses, coats and other made-to-measure garments. Milliners make, alter and repair hats. This unit group also includes alterationists who fit, alter and repair garments. They are employed by clothing retailers, clothing alteration shops, dry cleaners and garment manufacturing companies or they may be self-employed.

*Illustrative example(s)*

- alterations dressmaker
- custom furrier
- custom tailor
- furrier
- garment alterationist
- milliner
- seamstress
- tailor

*Exclusion(s)*

- Couturier - haute couture (see 5243 Theatre, fashion, exhibit and other creative designers)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Tailors
- Make made-to-measure garments, such as suits and coats according to customers' and clothing manufacturers' specifications and fit
- Design patterns to fit measurements
- Mark, cut and sew fabric
- May alter and repair garments as required.
- Dressmakers
- Make women's garments
- Select and modify commercial patterns to customers' and clothing manufacturers' specifications
- Fit, mark, cut and sew fabric
- May alter and repair garments as required.
- Furriers
- Make, alter, restyle and repair natural fur garments and accessories.
- Milliners
- Design, lay out, cut, sew and press fabric, leather and other materials into hats and related accessories.
- Alterationists
- Fit, alter and repair garments according to customers' requests by hand or using sewing machines.

*Employment requirements*

- Completion of secondary school may be required.
- Furriers require several years of experience in selecting pelts and making, fitting, styling and altering fur garments and accessories.
- Red Seal endorsement is also available to barbers, as qualified hairstylists, upon successful completion of the interprovincial Red Seal examination.
- Tailors and dressmakers require demonstrated ability to sew, style and fit men's or women's garments and may require completion of college or other courses in tailoring or dressmaking.
- Trade certification for barbers is compulsory in Ontario and available, but voluntary, in the Yukon.

## 6343 Shoe repairers and shoemakers

Shoe repairers repair footwear and shoemakers make specialized and custom shoes and boots. They are employed in shoe repair shops or custom shoemaking establishments, or they may be self-employed.

*Illustrative example(s)*

- bootmaker
- custom shoemaker
- orthopedic shoemaker
- shoe repairer
- shoemaker

*Exclusion(s)*

- Labourers in shoe manufacturing (see 9619 Other labourers in processing, manufacturing and utilities)
- Workers who cut fabric or leather to form shoe parts on a production basis (see 9445 Fabric, fur and leather cutters)
- Workers who operate sewing machines to make shoes on a production basis (see 9446 Industrial sewing machine operators)

*Main duties*

Shoemakers perform some or all of the following duties:

- Discuss type of footwear to be made and obtain measurements from customer
- Select patterns and leather or other material and outline and cut patterns
- Select or assemble lasts, fasten insoles to lasts and sew or glue other parts into place
- Trim, dress and otherwise finish boots or shoes
- Estimate custom footwear costs and receive payment from customers
- May supervise other shoemakers and shoe repairers.

Shoe repairers perform some or all of the following duties:

- Repair soles, heels and other parts of footwear using sewing, buffing and other shoe repair machines, materials and equipment
- Repair belts, luggage, purses and similar products
- Estimate footwear repair costs and take payment.

*Employment requirements*

- Alterationists require demonstrated ability to sew, alter and repair garments.
- Milliners require demonstrated ability to sew, style and fit hats and caps.
- Several months of on-the-job training is provided for shoe repairers.
- Some secondary school may be required.

*Additional information*

- Shoe repairers may progress to shoemakers with experience.

## 6344 Jewellers, jewellery and watch repairers and related occupations

Jewellers and related workers fabricate, assemble, repair and appraise fine jewellery. Watch repairers and related workers repair, clean, adjust and fabricate parts for clocks and watches. They are employed by jewellery, clock and watch manufacturers and retail stores, by jewellery and watch repair shops or they may be self-employed.

*Inclusion(s)*

- clockmaker
- diamond and other gem cutting and polishing
- gemologist
- place holder
- place holder

*Illustrative example(s)*
- clock repairer
- diamond cutter
- gem cutter
- pearl cutter
- precious stone setter
- watch repairer

*Exclusion(s)*
- Goldsmiths, silversmiths and jewellery artisans (see 5244 Artisans and craftspersons)
- Jewellery and clock and watch production assemblers (see 9537 Other products assemblers, finishers and inspectors)

*Main duties*

Jewellers and related workers perform some or all of the following duties:
- Fabricate and repair precious and semi-precious metal jewellery, such as rings, brooches, pendants, bracelets and lockets
- Examine, cut, shape and polish diamonds using optical instruments, lathes and laps
- Examine, cut, shape and polish precious and synthetic gems using optical instruments, cutting disks and laps
- Appraise gemstones and diamonds to differentiate between stones, identify rare specimens and to detect peculiarity affecting stone values
- Set precious and semi-precious stones in jewellery mountings, according to specifications
- May supervise other jewellers.
- Jewellers may specialize in certain kinds of jewellery, such as gold or silver, or in particular operations, such as fabrication or repair.

Watch repairers perform some or all of the following duties:
- Fabricate or fit parts to make watches and clocks
- Examine clocks and watches, disassemble and check for defective and misaligned parts or rust
- Replace or repair worn or broken parts
- Test, adjust and regulate timepiece movements
- Clean all parts using special cleaning and rinsing solutions and ultrasonic or mechanical cleaning machines to remove dirt and dried lubricants
- May supervise other watch repairers.

*Employment requirements*
- Completion of a college or other program, or apprenticeship training in watch or jewellery repair or gemology is usually required.
- Completion of secondary school is usually required.
- Extensive on-the-job training is provided for shoemakers.
- Shoemakers may require experience as shoe repairers.

*Additional information*
- Mobility is possible among the various jewellery occupations in this unit group.
- There is little mobility between the jewellery occupations and the watch repairers in this unit group.

## 6345 Upholsterers

Upholsterers cover furniture, fixtures and similar items with fabric, leather or other upholstery materials. They are employed by furniture, aircraft, motor vehicle and other manufacturing companies, furniture retail outlets and repair shops or they may be self-employed.

*Illustrative example(s)*
- automobile upholsterer
- custom upholsterer
- furniture upholsterer

- upholsterer
- upholstery repairer

*Exclusion(s)*
- Furniture and fixture assemblers and inspectors (see 9532 Furniture and fixture assemblers and inspectors)
- Furniture finishers and refinishers (see 9534 Furniture finishers and refinishers)
- Supervisors of upholsterers in furniture manufacturing (see 9224 Supervisors, furniture and fixtures manufacturing)
- Upholsterer helpers (see 9619 Other labourers in processing, manufacturing and utilities)

*Main duties*

Upholsterers perform some or all of the following duties:
- Discuss upholstery fabric, colour, and style with customers and provide cost estimate for upholstering furniture or other items
- Lay out, measure and cut upholstery materials according to sketches or design specifications
- Replace worn-out webbing, springs and other furniture parts using hand and power tools
- Operate sewing machines or sew upholstery materials by hand to seam cushions and join sections of covering materials
- Install padding and underlays and fasten covering materials to furniture frames
- Tack, glue or sew ornamental trim, braids or buttons on upholstered items
- Lay out, cut, fabricate and install upholstery in aircrafts, motor vehicles, railway cars, boats and ships
- May repair furniture frames and refinish wood surfaces
- May make upholstery patterns from sketches, customer descriptions or blueprints
- May install, fabricate, maintain and repair interior components of aircraft, such as seats, coverings, drapes, cargo nets, flooring, closets, bins and panels.

*Employment requirements*
- Completion of secondary school is usually required.
- Experience as a jewellery, clock or watch assembler may be required.
- Trade certification as a gemsetter is available, but voluntary, in Ontario.

*Additional information*
- Progression to supervisory positions is possible with experience.

## 6346 Funeral directors and embalmers

Funeral directors co-ordinate and arrange all aspects of funeral services. Embalmers prepare the remains of deceased persons for public visitation and burial. Funeral directors and embalmers are employed by funeral homes.

*Illustrative example(s)*
- apprentice embalmer
- embalmer
- funeral director
- mortician

*Exclusion(s)*
- Bereavement counsellors (see 4153 Family, marriage and other related counsellors)
- Funeral home attendants (see 6742 Other service support occupations, n.e.c.)
- Funeral service general managers (see 0015 Senior managers - trade, broadcasting and other services, n.e.c.)

*Main duties*

Funeral directors perform some or all of the following duties:
- Consult with the family of the deceased regarding the nature of the funeral service, the disposition of the remains and funeral costs

- Transfer, or arrange for the transfer of, the remains from the place of death to the funeral home
- Inform survivors of benefits for which they may be eligible
- Issue death notices to newspapers
- Oversee the preparation of the remains, plan and schedule funeral services, co-ordinate burials and cremations and complete legal documents
- Discuss and negotiate prearranged funerals with clients
- Manage funeral home operations including hiring and directing staff, maintaining financial records, preparing accounts and ordering merchandise
- Supervise embalmers, funeral home attendants and other funeral home staff
- May perform same duties as embalmers.

Embalmers perform some or all of the following duties:
- Preserve, sanitize and prepare human remains for funeral services
- Perform cosmetic and restorative work on human remains
- Supervise funeral home attendants and other funeral home staff.

*Employment requirements*
- Completion of a one- to two-year college program and a twelve- to twenty-month practical apprenticeship program during or following the educational program is usually required for funeral directors.
- Completion of a two- to three-year college program and a twelve- to twenty-month practical apprenticeship program during or following the educational program or Completion of a three-year college program is required for embalmers.
- Completion of college or other specialized courses or an apprenticeship program in furniture upholstering and repair or Several years of on-the-job training, including working as an upholsterer helper are usually required.
- Funeral directors require licensure in most provinces and territories.
- Trade certification is available, but voluntary, in Quebec.

## 64 Sales representatives and salespersons - wholesale and retail trade

This major group comprises sales occupations requiring secondary school, or more, and experience related to the product or service, or some combination of education, specific courses, product knowledge and demonstrated sales ability. It includes sales and account representatives in wholesale trade (non-technical) and retail salespersons.

## 641 Sales and account representatives - wholesale trade (non-technical)

This minor group includes non-technical sales and account representatives in wholesale trade, and auctioneers. They are employed by petroleum companies, food, beverage and tobacco producers, clothing manufacturers, motor vehicles and parts manufacturers, hotels, business services firms, and transportation companies, and other establishments that produce and provide goods and services.

## 6411 Sales and account representatives - wholesale trade (non-technical)

Sales representatives, wholesale trade (non-technical), sell non-technical goods and services to retail, wholesale, commercial, industrial, professional and other clients domestically and internationally. They are employed by establishments that produce or provide goods and services such as petroleum companies, food, beverage and tobacco producers, clothing manufacturers, motor vehicles and parts manufacturers, hotels, business services firms, and transportation companies. Auctioneers are included in this unit group. Sales representatives, wholesale trade who are supervisors are also included in this unit group.

*Illustrative example(s)*
- advertising time sales representative
- food products sales representative
- freight sales agent
- graphic design sales representative
- hotel accommodations sales executive
- liquor sales representative

- magazine sales representative
- oil distributor
- security services sales consultant
- transfer company agent
- wholesale trade representatives supervisor

*Exclusion(s)*

- Advertising, marketing and public relations managers (see 0124 Advertising, marketing and public relations managers)
- Retail salespersons (see 6421 Retail salespersons)
- Royalties managers (see 0512 Managers - publishing, motion pictures, broadcasting and performing arts)
- Technical sales specialists - wholesale trade (see 6221 Technical sales specialists - wholesale trade)

*Main duties*

Sales representatives, wholesale trade (non-technical), perform some or all of the following duties:

- Promote sales to existing clients
- Identify and solicit potential clients
- Provide clients with presentations on the benefits and uses of goods or services
- Estimate or quote prices, credit or contract terms, warranties and delivery dates
- Prepare or oversee preparation of sales or other contracts
- Consult with clients after sale or signed contracts to resolve problems and to provide ongoing support
- Review and adapt to information regarding product innovations, competitors and market conditions
- Represent companies that export and import products or services to and from foreign countries
- May conduct sales transactions through Internet-based electronic commerce
- May supervise the activities of other sales representatives.

*Employment requirements*

- A university degree or completion of a college or other program may be required.
- Completion of secondary school is required.
- Embalmers require licensure in all provinces.
- Experience in sales or in an occupation related to the product or service is usually required.
- Fluency in a foreign language and/or foreign country work or travel experience may be required for sales representatives seeking employment with companies that import or export goods or services.
- Funeral directors may be required to be licensed embalmers depending on provincial requirements.

*Additional information*

- Progression to sales management positions is possible with additional training or experience.

## 642 Retail salespersons

This minor group includes retail salespersons. They are employed by stores and other retail businesses, as well as wholesale businesses that sell on a retail basis to the public.

### 6421 Retail salespersons

Retail salespersons sell, rent or lease a range of technical and non-technical goods and services directly to consumers. They are employed by stores and other retail businesses, as well as wholesale businesses that sell on a retail basis to the public.

*Illustrative example(s)*

- audio equipment salesperson
- automobile salesperson
- car rental agent
- clothing salesperson
- computer salesperson - retail
- counter clerk - retail

- department store clerk
- furniture salesperson
- hardware store clerk
- jewellery salesperson
- retail sales associate
- retail sales clerk
- retail salesperson
- sales consultant - retirement homes

*Exclusion(s)*

- Cashiers (see 6611 Cashiers)
- Retail stock clerks (see 6622 Store shelf stockers, clerks and order fillers)
- Sales clerk supervisors (see 6211 Retail sales supervisors)

*Main duties*

Retail salespersons perform some or all of the following duties:

- Greet customers and discuss type, quality and quantity of merchandise or services sought for purchase, rental or lease
- Advise customers on use and care of merchandise, and provide advice concerning specialized products or services
- Estimate or quote prices, credit terms, trade-in allowances, warranties and delivery dates
- Prepare merchandise for purchase, rental or lease
- Prepare sales, rental or leasing contracts and accept cash, cheque, credit card or automatic debit payment
- Assist in display of merchandise
- Maintain sales records for inventory control
- Operate computerized inventory record keeping and re-ordering systems
- May conduct sales transactions through Internet-based electronic commerce.
- Retail salespersons may specialize and act as consultants in home entertainment systems, computers and other products and services.

*Employment requirements*

- A university degree or college diploma may be required by some employers.
- Completion of secondary school may be required.
- Supervisors and senior sales representatives require experience.
- Voluntary certification is available from the Canadian Professional Sales Association.

*Additional information*

- Progression to retail supervisory positions is possible with additional training or experience.
- Technical or sales training programs may be provided by employers.

## 65 Service representatives and other customer and personal services occupations

This major group comprises service occupations usually requiring secondary school and some combination of specific training courses or programs of up to two years in duration, on-the-job training, related knowledge or experience and, in some cases, relevant licences or certifications. It includes security guards and occupations in related security services, food and beverage service, travel and accommodation, tourism and amusement services, customer and information services and other personal services.

### 651 Occupations in food and beverage service

This minor group includes maîtres d'hôtel, hosts/hostesses, bartenders, and food and beverage servers. They are employed by restaurants, hotel dining rooms, private clubs, cocktail lounges, bars, taverns, banquet halls and similar establishments.

## 6511 Maîtres d'hôtel and hosts/hostesses

Maîtres d'hôtel and hosts/hostesses greet patrons and escort them to tables, and supervise and co-ordinate the activities of food and beverage servers. They are employed in restaurants, hotel dining rooms, private clubs, cocktail lounges and similar establishments.

*Illustrative example(s)*
- chief host/hostess - food services
- dining room host/hostess
- maître d'
- restaurant host/hostess

*Exclusion(s)*
- Food and beverage servers (see 6513 Food and beverage servers)
- Food service supervisors (see 6311 Food service supervisors)

*Main duties*

Maîtres d'hôtel and hosts/hostesses perform some or all of the following duties:
- Receive and record patrons' reservations and assign tables
- Greet patrons and escort them to tables or other seating areas
- Speak with patrons to ensure satisfaction with food and service, and attend to complaints
- Order dining room supplies and equipment
- Inspect dining and serving areas and equipment
- Supervise and co-ordinate activities of food and beverage servers and other serving staff
- Accept payment from patrons for food and beverages
- Maintain financial statements and records
- Prepare work schedules and payrolls
- Interview candidates for food and beverage server positions and train new employees
- May be responsible for marketing and advertising the dining establishment.

*Employment requirements*
- Completion of secondary school is usually required.
- Demonstrated sales ability and product knowledge are usually required for retail salespersons who sell complex or valuable merchandise, such as automobiles, antiques or computers.
- Specific subject matter courses or training may be required.

## 6512 Bartenders

Bartenders mix and serve alcoholic and non-alcoholic beverages. They are employed in restaurants, hotels, bars, taverns, private clubs, banquet halls and other licensed establishments. Supervisors of bartenders are included in this unit group.

*Illustrative example(s)*
- bar attendant
- bar steward
- bartender
- head bartender

*Exclusion(s)*
- Bar managers (see 0631 Restaurant and food service managers)
- Food and beverage servers (see 6513 Food and beverage servers)

*Main duties*

Bartenders perform some or all of the following duties:
- Take beverage orders from serving staff or directly from patrons
- Mix liquor, soft drinks, water and other ingredients to prepare cocktails and other drinks

- Prepare mixed drinks, wine, draft or bottled beer and non-alcoholic beverages for food and beverage servers or serve directly to patrons
- Collect payment for beverages and record sales
- Maintain inventory and control of bar stock and order supplies
- Clean bar area and wash glassware
- Ensure compliance with provincial/territorial liquor legislation and regulations
- May train and supervise other bartenders and bar staff
- May hire and dismiss staff.

*Employment requirements*
- Completion of secondary school may be required.
- Maîtres d'hôtel require experience as a formal or captain waiter/waitress or other food service experience.
- Several weeks of on-the-job training are usually required.

*Additional information*
- Progression to managerial positions in food and beverage service is possible with experience.

### 6513 Food and beverage servers

Food and beverage servers take patrons' food and beverage orders and serve orders to patrons. They are employed in restaurants, hotels, bars, taverns, private clubs, banquet halls and similar establishments.

*Inclusion(s)*
- banquet captain

*Illustrative example(s)*
- banquet server
- captain waiter/waitress
- chief wine steward
- cocktail waiter/waitress
- food and beverage server
- formal service waiter/waitress
- sommelier
- waiter/waitress
- wine steward

*Exclusion(s)*
- Food service supervisors (see 6311 Food service supervisors)
- Maîtres d'hôtel and hosts/hostesses (see 6511 Maîtres d'hôtel and hosts/hostesses)
- Restaurant and food service managers (see 0631 Restaurant and food service managers)

*Main duties*

Food and beverage servers perform some or all of the following duties:
- Greet patrons, present menus, make recommendations and answer questions regarding food and beverages
- Take orders and relay to kitchen and bar staff
- Recommend wines that complement patrons' meals
- Serve food and beverages
- Prepare and serve specialty foods at patrons' tables
- Present bill to patrons and accept payment
- May order and maintain inventory of wines and wine glassware
- May perform sensory evaluation of wines.

*Employment requirements*
- An apprenticeship program for food and beverage servers is available, but voluntary, in Quebec and Saskatchewan.

- Completion of college or other program in bartending or Completion of courses in mixing drinks is usually required.
- Completion of secondary school may be required.
- Formal waiters/waitresses may require completion of a one- or two-year apprenticeship program or College or vocational school courses.
- On-the-job training is usually provided.
- Responsible beverage service certification may be required.

## 652 Occupations in travel and accommodation

This minor group includes travel counsellors, pursers, flight attendants, airline ticket and service agents, airline load planners, ground and water transport ticket agents, cargo service representatives, and hotel front desk clerks. They are employed by travel agencies, transportation and tourism firms, travel wholesalers, bus, railway, airline, tour boat and cruise ship companies, public transit establishments, hotels, motels, resorts and freight forwarding and shipping companies.

## 6521 Travel counsellors

Travel counsellors advise clients on travel options and tour packages, make bookings and reservations, prepare tickets and receive payment. They are employed in travel agencies, transportation and tourism firms and hotel chains.

*Illustrative example(s)*
- reservation agent - travel agency
- travel agent
- travel consultant

*Exclusion(s)*
- Airline ticket agents (see 6523 Airline ticket and service agents)
- Convention co-ordinators (see 1226 Conference and event planners)
- Travel agency managers (see 0621 Retail and wholesale trade managers)

*Main duties*

Travel counsellors perform some or all of the following duties:
- Provide travel information to clients regarding destinations, transportation and accommodation options and travel costs, and recommend suitable products
- Plan and organize vacation travel for individuals or groups
- Make transportation and accommodation reservations using computerized reservation and ticketing system
- Sell single fare tickets and package tours to clients
- Promote particular destinations, tour packages and other travel services
- Investigate new travel destinations, hotels and other facilities and attractions
- Provide travel tips regarding tourist attractions, foreign currency, customs, languages and travel safety.

*Employment requirements*
- Completion of secondary school is usually required.
- Responsible beverage service certification is usually required for employees serving alcoholic beverages.
- Sommeliers may require courses in wine selection and service or Experience as a formal waiter/waitress.

*Additional information*
- Progression to managerial positions is possible with experience.

## 6522 Pursers and flight attendants

Airline pursers and flight attendants ensure the safety and comfort of passengers and crew members during flights. Ship pursers attend to the safety and comfort of passengers aboard ships. Airline pursers and flight attendants are employed by airline companies. Ship pursers are employed by tour boat or cruise ship companies.

*Illustrative example(s)*

- airline purser
- flight attendant
- flight service director
- passenger service director - water transportation
- ship purser

*Exclusion(s)*

- Food and beverage servers on trains (see 6513 Food and beverage servers)
- Passenger service attendants - except air travel (see 6721 Support occupations in accommodation, travel and facilities set-up services)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Flight attendants
- Greet passengers, explain and demonstrate safety procedures, check the general condition of the aircraft cabin, ensure that all necessary supplies are on board
- Attend to safety of passengers during take-offs, landings and emergencies
- Serve food and beverages to passengers and make flight announcements.
- Flight pursers, customer service directors and passenger service directors
- Co-ordinate the activities of flight attendants, provide service to passengers during flight and complete reports.
- Ship pursers
- Supervise ship attendants and arrange activities for passengers
- Conduct ship's business, such as signing on crew, maintaining payroll records, assisting passengers in preparing customs declarations and supervising baggage storage.

*Employment requirements*

- A college diploma or vocational training in travel or tourism is usually required.
- Certification with the Association of Canadian Travel Agencies (ACTA) may be required.
- Flight attendants and flight pursers require the completion of secondary school and a training program approved by Transport Canada.
- Flight pursers/customer service directors require experience as a flight attendant.

*Additional information*

- It is an advantage for pursers and flight attendants to speak more than one language.
- There is little mobility between airline pursers and ship pursers.

## 6523 Airline ticket and service agents

Airline ticket and service agents issue tickets, provide fare quotations, make reservations, conduct passenger check-in, trace missing baggage, arrange for cargo shipments and perform other related customer service duties to assist airline passengers. Airline ticket and service agents are employed by airline companies.

*Illustrative example(s)*

- airline baggage agent
- airline cargo agent
- airline load planner
- airline passenger agent
- airline reservation agent

- airline ticket agent
- baggage tracer - airline
- client service representative - airline
- counter services agent - airline
- customer service agent - airline
- station agent - airline

*Exclusion(s)*

- Airline cargo and baggage loaders (see 6721 Support occupations in accommodation, travel and facilities set-up services)
- Ground and water transport ticket agents, cargo service representatives and related clerks (see 6524 Ground and water transport ticket agents, cargo service representatives and related clerks)
- Supervisors of airline sales and service agents (see 6313 Accommodation, travel, tourism and related services supervisors)
- Travel counsellors (see 6521 Travel counsellors)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Airline passenger and ticket agents
- Help customers plan travel time and routes, prepare and issue tickets, assign seats, prepare boarding passes, check baggage, attend boarding gates
- Assist pre-boarding passengers and provide information on fares and flight schedules and routes.
- Airline baggage agents
- Trace lost, delayed or misdirected baggage for customers.
- Airline cargo agents
- Weigh cargo and compute freight costs, calculate charges for services and insurance, process bills of lading, cargo manifests and other documents
- Trace lost or misdirected cargo and maintain shipping and other records.
- Airline reservation agents
- Reserve seats for tour companies, travel agencies, wholesalers and the general public using computerized systems
- Provide information on airline passengers and process mileage points.
- Airline station agents
- Complete pre-flight documents regarding passenger and cargo load, catering count, special requests and other flight information
- Relay operational messages to operations control and downline stations
- Perform duties of ticket, baggage and cargo agents.
- Airline load planners
- Calculate load weights for compartments of aircraft using charts and computers
- Plan load to distribute and balance cargo.

*Employment requirements*

- Completion of secondary school is usually required.
- Flight attendants and ship pursers usually require experience working with the public.
- Several weeks of on-the-job and classroom training are provided for all occupations in this unit group.
- Ship pursers may require experience as a ship attendant.

*Additional information*

- Depending on the size of the airline or airport, the duties of workers in this unit group may overlap.
- Progression to supervisory positions is possible with experience.

## 6524 Ground and water transport ticket agents, cargo service representatives and related clerks

Ground and water transport ticket agents, cargo service representatives and related clerks, quote fares and rates, make reservations, issue tickets, process cargo shipments, check baggage and perform other related customer service duties to assist travellers. They are employed by bus and railway companies, freight forwarding and shipping companies, boat cruise operators and other public transit establishments and by travel wholesalers.

*Illustrative example(s)*
- bus ticket agent
- cargo customer service representative - railway
- counter service agent - railway
- railway passenger agent
- railway reservations clerk
- reservations clerk - cruise line
- ticket agent (except airline)

*Exclusion(s)*
- Airline ticket and service agents (see 6523 Airline ticket and service agents)
- Supervisors of ticket and cargo agents and related clerks in this unit group (see 6313 Accommodation, travel, tourism and related services supervisors)
- Travel counsellors (see 6521 Travel counsellors)

*Main duties*

Ticket agents in this unit group perform some or all of the following duties:
- Answer customer inquiries, quote fares and assist clients in planning travel times and routes
- Reserve seats for tour companies, travel agencies, wholesalers and the general public
- Issue tickets, handle cash transactions and check baggage
- Receive and record bookings for package tours from retail travel agencies and supply information regarding available vacancies when working for wholesale travel companies.

Cargo service representatives in this unit group perform some or all of the following duties:
- Quote fare and rates for cargo shipment
- Compute shipment costs including charges for services and insurance using rate tables and schedules and prepare and maintain shipping and other documents
- Check in passenger baggage and sort for loading by baggage handlers or may load baggage directly into buses, railway cars or cruise ships
- Trace lost or misdirected passenger baggage or cargo shipment.

*Employment requirements*
- Airline station agents usually require experience as a ticket, baggage or cargo agent.
- Load planners require a restricted radio operator's licence and usually require airline operations experience.

*Additional information*
- Progression to supervisory positions is possible through experience.
- Ticket agents and cargo service representatives may perform the same duties depending on the size and location of the operations.

## 6525 Hotel front desk clerks

Hotel front desk clerks make room reservations, provide information and services to guests and receive payment for services. They are employed by hotels, motels and resorts.

*Illustrative example(s)*
- guest services agent - hotel
- hotel front desk clerk
- night clerk

- reservations clerk - hotel
- room clerk

*Exclusion(s)*

- Supervisors, hotel front desk clerk (see 6313 Accommodation, travel, tourism and related services supervisors)
- Travel counsellors (see 6521 Travel counsellors)

*Main duties*

Hotel front desk clerks perform some or all of the following duties:

- Maintain an inventory of vacancies, reservations and room assignments
- Register arriving guests and assign rooms
- Answer enquiries regarding hotel services and registration by letter, by telephone and in person, provide information about services available in the community and respond to guests' complaints
- Compile and check daily record sheets, guest accounts, receipts and vouchers using computerized or manual systems
- Present statements of charges to departing guests and receive payment.

*Employment requirements*

- Completion of secondary school is usually required.
- Completion of secondary school or equivalent is usually required.
- Up to 10 weeks of training may be provided.

*Additional information*

- Progression to senior positions such as accommodations manager is possible with additional training and experience.

## 653 Tourism and amusement services occupations

This minor group includes tour and travel guides, outdoor sport and recreational guides and workers in casino occupations. They are employed by tour operators, resorts and other establishments, casinos and private companies; or they may be self-employed.

### 6531 Tour and travel guides

Tour and travel guides escort individuals and groups on trips, on sightseeing tours of cities and on tours of historical sites and establishments such as famous buildings, manufacturing plants, cathedrals and theme parks. They also provide descriptions and background information on interesting features. Tour and travel guides are employed by tour operators, resorts and other establishments or may be self-employed.

*Illustrative example(s)*

- adventure travel site interpreter
- bicycle tour guide
- calèche driver
- factory tour guide
- industrial site interpreter
- tour guide
- travel guide

*Exclusion(s)*

- Museum guides and historical and heritage interpreters (see 5212 Technical occupations related to museums and art galleries)
- Outdoor sport and recreational guides (see 6532 Outdoor sport and recreational guides)
- Tour operators (see 0651 Managers in customer and personal services, n.e.c.)

*Main duties*

Tour guides perform some or all of the following duties:

- Transport or escort individuals or groups on tours of cities, waterways and industrial and other establishments
- Describe points of interest, answer questions and supply information
- Provide historical and cultural facts related to the site
- May collect admission fees and sell souvenirs.

Travel guides perform some or all of the following duties:

- Escort individuals and groups on vacation and business trips
- Ensure that reservations for transportation and accommodations are confirmed and that prepared itineraries are met
- Visit and describe points of interest and plan and carry out recreational activities
- Resolve problems with itineraries, service and accommodations.

*Employment requirements*

- Completion of a two-year apprenticeship program, or a college program in front desk operations or hotel management may be required.
- Guest services representative trade certification is available, but voluntary, in Saskatchewan.

## 6532 Outdoor sport and recreational guides

Outdoor sport and recreational guides organize and conduct trips or expeditions for sports enthusiasts, adventurers, tourists and resort guests. They are employed by private companies and resorts or may be self-employed.

*Inclusion(s)*

- zipline guide

*Illustrative example(s)*

- canoeing guide
- dude wrangler
- fishing guide
- hot air balloonist
- hunting guide
- mountain climbing guide
- outdoor guide
- outfitter
- rafting guide

*Exclusion(s)*

- Program leaders and instructors in recreation, sport and fitness (see 5254 Program leaders and instructors in recreation, sport and fitness)
- Tour and travel guides (see 6531 Tour and travel guides)

*Main duties*

Outdoor sport and recreational guides perform some or all of the following duties:

- Plan itinerary for trip or expedition and arrange transportation or transport individuals or group to site
- Assemble and inspect necessary equipment and supplies, such as camping gear, hot air balloon, rafts, life jackets, fishing tackle and food
- Lead or escort individuals or groups and advise on safety and emergency measures, techniques and the use of equipment
- Provide instruction for activities such as canoeing, rafting and mountain climbing
- Advise on specific laws and regulations for activities such as hunting, fishing and boating
- Follow environmental guidelines and prevent violations
- Provide first aid in emergency situations
- May prepare meals for group and set up camp.

*Employment requirements*

- Knowledge of a particular terrain or body of water, demonstrated ability in the guided activity and relevant licences and certifications are required for employment in this group.
- Knowledge of both official languages or an additional language may be required for some positions in this group.
- On-the-job training is provided.

*Additional information*

- Outdoor sport and recreational guides usually work on a seasonal basis.

## 6533 Casino occupations

Casino workers operate gaming tables, assist patrons using slot machines, accept keno wagers, pay out winning bets and jackpots and collect losing bets. They are employed by casinos.

*Inclusion(s)*

- guest service representative - casino

*Illustrative example(s)*

- croupier
- keno runner - casino
- keno writer

*Exclusion(s)*

- Amusement ride, sports facility and bingo hall workers (see 6722 Operators and attendants in amusement, recreation and sport)
- Supervisors of casino workers (see 6313 Accommodation, travel, tourism and related services supervisors)

*Main duties*

Casino workers perform some or all of the following duties:

- Operate gaming tables and games such as roulette, blackjack, keno, baccarat and poker
- Monitor and assist patrons using slot machines
- Explain rules of games to patrons and ensure that rules are followed
- Accept keno wagers and issue computerized tickets for selection
- Determine winners or announce winning numbers
- Calculate and pay out winning bets and jackpots, collect losing bets and maintain related reports
- Replenish and reset slot machines
- May perform minor adjustments or repairs to slot machines.

*Employment requirements*

- Certification in first aid and CPR (cardiopulmonary resuscitation) may be required.
- Completion of secondary school is usually required.
- Hot air balloon pilots require completion of 10 hours of ground school, 16 hours of pilot-in-command experience and a Balloon Pilot Licence issued by Transport Canada. Additional hours of pilot-in-command experience may be required by some employers.
- On-the-job training is provided for gaming table dealers.

*Additional information*

- Progression to supervisory positions is possible with experience in all activities related to gaming.

## 654 Security guards and related security service occupations

This minor group includes security guards, armoured car guards, corporate security officers, private investigators, retail loss prevention officers and workers in other related security service occupations. They are employed by public and private security agencies; residential complexes; educational, cultural, financial and health institutions; retail establishments, businesses and industry; investigation service companies; transportation facilities; and organizations throughout the private and public sectors; or they may be self-employed.

## 6541 Security guards and related security service occupations

This unit group includes workers who guard and implement security measures to protect property against theft, vandalism and fire, control access to establishments, maintain order and enforce regulations at public events and within establishments, conduct private investigations for clients or employers and provide other protective services not elsewhere classified. They are employed by public or private security agencies, residential complexes, educational, cultural, financial and health institutions, retail establishments, businesses and industry, investigation service companies, transportation facilities, and organizations throughout the private and public sectors, or they may be self-employed.

*Illustrative example(s)*

- airport security guard
- alarm investigator
- armoured car guard
- automatic teller machine (ATM) guard
- bodyguard (except police)
- commissionaire
- corporate security officer
- gate attendant - security
- house detective
- night guard
- postal inspection officer
- preboarding security guard
- private investigator
- private security officer
- retail loss prevention officer
- security guard
- store detective
- theft prevention officer

*Exclusion(s)*

- Correctional service officers (see 4422 Correctional service officers)
- Managers of security agencies (see 0125 Other business services managers)
- Police officers (except commissioned) (see 4311 Police officers (except commissioned))
- Supervisors of security guards and related occupations (see 6316 Other services supervisors)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Security guards
- Control access to establishments, operate security control-room equipment and patrol assigned areas to guard against theft, vandalism and fire
- Enforce regulations to maintain order and resolve conflicts and to monitor establishment activities
- Ensure safety and emergency procedures are followed
- Issue passes and direct visitors to appropriate areas, check age identification of patrons, and perform security checks of passengers and luggage at airports.
- Armoured car guards
- Drive and guard armoured trucks, pick-up and deliver cash and valuables to banks, automated teller machines and retail establishments.

- Corporate security officers
- Investigate unlawful acts of employees or patrons of establishments
- Recommend security systems such as electronic detection devices and access devices.
- Private investigators
- Conduct investigations to locate missing persons
- Obtain information for use in civil and criminal litigation matters or for other purposes
- May also conduct polygraph tests (integrity surveys) for clients.
- Retail loss prevention officers
- Prevent and detect shoplifting and theft in retail establishments.

*Employment requirements*
- A college diploma in law and security or police technology may be required.
- Armoured car drivers require a Valid Possession and Acquisition Licence (PAL) and a Firearms Acquisition Certificate (FAC) for both restricted and non-restricted firearms.
- Casino gaming licences are usually required for all casino employees.
- Completion of secondary school is usually required.
- Corporate security officers may require experience as a police officer.
- In Quebec, a permit issued by the Sûreté du Québec is required to work as a private detective or security officer.
- Security clearance is required for all casino workers.
- Security guards carrying firearms require a licence.
- Training is provided for airport security guards and establishment-specific training may be provided for security occupations in this unit group.

## 655 Customer and information services representatives

This minor group includes customer services representatives in financial institutions and other customer and information services representatives. They are employed by banks, trust companies, credit unions and similar financial institutions; retail establishments, contact centres, insurance, telephone and utility companies and other establishments throughout the private and public sectors.

### 6551 Customer services representatives - financial institutions

Customer service representatives in this unit group process customers' financial transactions and provide information on related banking products and services. They are employed by banks, trust companies, credit unions and similar financial institutions.

*Illustrative example(s)*
- bank teller
- credit union teller
- financial customer service representative
- foreign exchange teller - financial services

*Exclusion(s)*
- Banking, insurance and other financial clerks (see 1434 Banking, insurance and other financial clerks)
- Financial sales representatives (see 6235 Financial sales representatives)
- Other customer and information services representatives (see 6552 Other customer and information services representatives)
- Supervisors of financial customer service representatives (see 6314 Customer and information services supervisors)
- Supervisors, finance and insurance office workers (see 1212 Supervisors, finance and insurance office workers)

*Main duties*

Customer service representatives in this unit group perform some or all of the following duties:

- Process customer cash deposits and withdrawals, cheques, transfers, bills and credit card payments, money orders, certified cheques and other related banking transactions
- Obtain and process information required for the provision of services, such as opening accounts and savings plans and purchasing bonds
- Sell travellers' cheques, foreign currency and money orders
- Answer enquiries and resolve problems or discrepancies concerning customers' accounts
- Inform customers of available banking products and services to address their needs.

*Employment requirements*
- Completion of secondary school is required.
- Private investigators require provincial licensure.
- Responsible beverage service certification is usually required for security staff in establishments serving alcoholic beverages.

*Additional information*
- Progression to supervisory positions is possible with experience.

### 6552 Other customer and information services representatives

This unit group includes customer and information services representatives who answer enquiries and provide information regarding an establishment's goods, services and policies and who provide customer services such as receiving payments and processing requests for services. They are employed by retail establishments, contact centres, insurance, telecommunications and utility companies and other establishments throughout the private and public sectors.

*Illustrative example(s)*
- accounts information clerk
- bus information clerk
- complaints clerk - customer service
- contact centre agent - customer service
- courtesy desk clerk
- customer service representative - call centre
- enquiries clerk
- information clerk - customer service
- lost-and-found clerk
- order desk agent
- public relations clerk
- tourist information clerk

*Exclusion(s)*
- Airline ticket and service agents (see 6523 Airline ticket and service agents)
- Customer and information services supervisors (see 6314 Customer and information services supervisors)
- Customer service representatives in banks and other financial institutions (see 6551 Customer services representatives - financial institutions)
- Receptionists (see 1414 Receptionists)
- Retail salespersons (see 6421 Retail salespersons)
- Ticket and information clerks (except airline) (see 6524 Ground and water transport ticket agents, cargo service representatives and related clerks)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:
- Customer services representatives in retail establishments
- Answer, in person or on the phone, enquiries from customers
- Investigate complaints regarding the establishment's goods, services and policies
- Arrange for refunds, exchange and credit for returned merchandise
- Receive account payments

- Receive credit and employment applications.
- Contact centre agents
- Take customer orders for goods or services
- Promote goods or services
- Respond to enquiries and emergencies
- Investigate complaints and update accounts.
- Customer service representatives in insurance, telecommunication, utility and similar companies
- Explain the type and cost of services offered
- Order services
- Povide information about claims or accounts
- Update accounts, initiate billing and process claim payments, and receive payment for services.
- Information services representatives
- Provide information to customers and the public concerning goods, services, schedules, rates, regulations and policies in response to telephone and in-person enquiries.

*Employment requirements*
- A college diploma in business administration may be required.
- Completion of secondary school is usually required.
- On-the-job training is provided.

*Additional information*
- Progression to supervisory positions is possible with experience.

## 656 Other occupations in personal service

This minor group includes image, social and other personal consultants; estheticians, electrologists and workers in related occupations; pet groomers and animal care workers; and workers in other personal service occupations. They are employed by beauty salons, fashion boutiques, modelling schools, image consulting companies and weight loss centres; electrolysis studios, scalp treatment and hair replacement clinics and other similar establishments and cosmetic departments of retail establishments; animal hospitals and clinics, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet shops, dog training schools and pet grooming establishments; and call centres and personal service establishments; or they may be self-employed.

## 6561 Image, social and other personal consultants

Image, social and other personal consultants advise clients on their personal appearance, speaking style, manners or other behaviours in order to improve personal or business images. They are employed by beauty salons, fashion boutiques, modelling schools, image consulting companies, weight loss centres or they may be self-employed.

*Illustrative example(s)*
- etiquette consultant
- fashion and wardrobe consultant
- fashion colour consultant
- image consultant
- make-up consultant
- public speaking consultant
- wardrobe consultant
- wedding consultant
- weight loss consultant

*Exclusion(s)*
- Cosmeticians and manicurists (see 6562 Estheticians, electrologists and related occupations)
- Hairstylists and barbers (see 6341 Hairstylists and barbers)
- Modelling school instructors (see 4216 Other instructors)
- Other personal service occupations (see 6564 Other personal service occupations)

*Main duties*

The following is a summary of the main duties of some occupations in this unit group:

- Image consultants advise clients on hair colour, hairstyles, make-up, clothing and accessories; may advise on posture, general appearance and manners, and provide courses and seminars on business and social etiquette.
- Make-up consultants advise clients on type, colour and application of make-up.
- Colour consultants advise clients on choice of colours for clothing that will complement their appearance.
- Wedding consultants advise clients on the selection of wedding gowns, floral arrangements, banquet facilities, wedding invitations and other items related to weddings.
- Weight loss consultants administer commercial weight loss programs, advise clients on diet and exercise and provide related support services.

*Employment requirements*

- Clerical or sales experience may be required.
- Completion of secondary school is usually required.
- Completion of some college or other post-secondary programs may be required.

## 6562 Estheticians, electrologists and related occupations

Estheticians, electrologists and related workers in this unit group provide facial and body treatments designed to enhance an individual's physical appearance. They are employed in beauty salons, electrolysis studios, scalp treatment and hair replacement clinics and other similar establishments and in cosmetic departments of retail establishments such as pharmacies and department stores, or they may be self-employed.

*Illustrative example(s)*

- beauty treatment operator
- cosmetician
- electrologist
- electrolysis technician
- esthetician
- hair replacement technician
- manicurist
- pedicurist
- scalp treatment specialist
- tattoo artist

*Exclusion(s)*

- Hairstylists and barbers (see 6341 Hairstylists and barbers)
- Image, social and other personal consultants (see 6561 Image, social and other personal consultants)
- Make-up artists (see 5226 Other technical and co-ordinating occupations in motion pictures, broadcasting and the performing arts)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Estheticians give facial and other body treatments using specialized products and techniques.
- Cosmeticians advise customers on the use of make-up and other beauty products and apply make-up to customers; may specialize in applying makeup to models or other individuals for special occasions.
- Electrologists remove unwanted hair permanently from client's face or body using needle only specialized electrical hair removal equipment, laser and other equipment.
- Manicurists and pedicurists clean, shape and polish fingernails and toenails and provide related treatments.
- Scalp treatment specialists apply medicated lotions to treat scalp conditions and hair loss.
- Tattoo artists apply permanent designs to customer's skin, using electric needles and chemical dyes; may also apply temporary designs to customer's skin.
- Hair replacement technicians (non-medical) prepare and apply custom-made hair pieces to customer's scalp, weave customer's hair to hair pieces and provide scalp treatments.

*Employment requirements*

- Apprenticeship for electrologists, estheticians and nail technicians is available in Manitoba. Trade certification for these occupations is compulsory in that province.
- Completion of a registered dermal therapy program may be required to provide electrology laser and vascular treatments.
- Completion of high school, college or beauty school programs for cosmeticians, estheticians, electrologists, manicurists and pedicurists is required or On-the-job training is provided.
- Electrologists usually require certification from an electrologist's educational or training institution.
- Estheticians usually require certification from an esthetician's educational or training institution.
- Experience and expertise in fashion, art, modelling or related fields is usually required.
- Membership in a provincial or national electrolysis association may be required.
- Specialized training courses are available for colour consultants, make-up and skin care consultants, weight loss consultants and most other occupations in this unit group.

*Additional information*

- There is little or no mobility among the different occupations in this unit group without additional specialized training.

## 6563 Pet groomers and animal care workers

Animal care workers feed, handle, train and groom animals and assist veterinarians, animal health technologists and technicians and animal breeders. Pet groomers clip coats, bathe and otherwise groom pets. Workers in this group are employed by animal hospitals and clinics, animal shelters, breeding and boarding kennels, zoos, laboratories, retail pet shops, dog training schools, pet grooming establishments, or may be self-employed.

*Illustrative example(s)*

- animal care worker (except farm)
- dog groomer
- dog trainer
- kennel attendant
- laboratory animal attendant
- pet groomer
- pound attendant
- veterinary attendant
- zoo attendant

*Exclusion(s)*

- Animal health technologists and veterinary technicians (see 3213 Animal health technologists and veterinary technicians)
- Animal nutritionists (see 2121 Biologists and related scientists)
- Horseshoers (see 7384 Other trades and related occupations, n.e.c.)
- Marine mammal trainers (see 2121 Biologists and related scientists)
- Sheep shearers (see 8431 General farm workers)

*Main duties*

Workers in this group perform some or all of the following duties:

- Prepare food and feed animals, fish or birds at scheduled intervals
- Clean and disinfect cages, pens and surrounding areas
- Shampoo, clip and groom animals
- Assist veterinarians and animal health technologists and technicians to inoculate and treat animals
- Assist animal breeders to handle and nurture animals
- Assist scientists and researchers in conducting laboratory tests with animals
- Monitor and document animal behaviour
- Train dogs to obey commands and perform specific duties in response to signals.

*Employment requirements*

- A business licence is required for workers in this group who are owners/operators of businesses offering these services.
- Practitioners offering these personal services are required to adhere to infection control procedures.

*Additional information*

- Progression to animal health technology occupations is possible with additional training.

### 6564 Other personal service occupations

This unit group includes occupations, not elsewhere classified, that provide psychic consulting, fortune telling, astrological services and other personal services. They are employed by call centres and personal service establishments, or are self-employed.

*Illustrative example(s)*

- astrologer
- chat line agent
- dating service consultant
- fortune teller
- psychic consultant
- psychic reader

*Exclusion(s)*

- Image, social and other personal consultants (see 6561 Image, social and other personal consultants)
- Massage therapists (see 3236 Massage therapists)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Astrologers chart and interpret stellar and planetary positions on a horoscope to predict future events and trends for a client or the general public.
- Psychic consultants and related advisors provide personal advice to clients based on various schools of thought.
- Other service providers included in this group offer a wide variety of personal services not elsewhere classified.

*Employment requirements*

- Completion of secondary school is usually required.

## 66 Sales support occupations

This major group comprises sales occupations that usually require some secondary education. It includes cashiers, service station attendants, store shelf stockers, store clerks and order fillers, and other sales related occupations.

### 661 Cashiers

This minor group includes cashiers. They are employed in stores, restaurants, theatres, recreational and sports establishments, currency exchange booths, government offices, business offices and other service, retail and wholesale establishments.

### 6611 Cashiers

Cashiers operate cash registers, optical price scanners, computers or other equipment to record and accept payment for the purchase of goods, services and admissions. They are employed in stores, restaurants, theatres, recreational and sports establishments, currency exchange booths, government offices, business offices and other service, retail and wholesale establishments.

*Illustrative example(s)*

- box office cashier
- cafeteria cashier
- grocery store cashier
- office cashier
- racetrack cashier
- self-serve gas bar cashier
- theatre cashier

*Exclusion(s)*

- Customer services representatives - financial institutions (see 6551 Customer services representatives - financial institutions)
- Head cashiers (see 6211 Retail sales supervisors)
- Retail salespersons (see 6421 Retail salespersons)
- Service station attendants (see 6621 Service station attendants)

*Main duties*

Cashiers perform some or all of the following duties:

- Greet customers
- Establish or identify price of goods, services or admission and tabulate total payment required using electronic or other cash register, optical price scanner or other equipment
- Weigh produce and bulk foods
- Receive and process payments by cash, cheque, credit card or automatic debit
- Wrap or place merchandise in bags
- Provide information to customers
- Assist sports spectators and theatre patrons with seat selection
- Calculate foreign currency exchange
- Calculate total payments received at end of work shift and reconcile with total sales
- Verify the age of customers when selling lottery tickets, alcohol or tobacco products
- May accept reservations and take-out orders
- May also stock shelves and clean check-out counter area.

*Employment requirements*

- A period of training under the guidance of a practitioner is usually required.
- Depending on the type of work performed, training courses in animal handling, grooming or dog training are usually required. Animal health or veterinary assistant college courses may be required for animal care workers.

*Additional information*

- Cashiers may progress to supervisory positions, such as head cashier, with additional training or experience.

## 662 Other sales support and related occupations

This minor group includes service station attendants; store shelf stockers, clerks and order fillers; and workers who sell goods and services during home demonstrations and by telephone soliciting, retail exhibitions and street vending. They are employed by automotive service stations, marinas, retail and wholesale establishments, manufacturers, telemarketing companies and call centres and warehouses; or they may be self-employed.

### 6621 Service station attendants

Service station attendants employed in automotive service stations sell fuel and other automotive products and perform such services as fuelling, cleaning, lubricating and performing minor repairs to motor vehicles. Those employed in marinas sell fuel, rent boats and related equipment, and maintain marina facilities.

*Illustrative example(s)*

- gas station attendant (except self-serve)
- marina attendant
- service station attendant

*Exclusion(s)*

- Auto technicians (see 7321 Automotive service technicians, truck and bus mechanics and mechanical repairers)
- Self-serve gas bar cashiers (see 6611 Cashiers)
- Service station managers (see 0621 Retail and wholesale trade managers)
- Service station supervisors (see 6211 Retail sales supervisors)

*Main duties*

Automotive service station attendants perform some or all of the following duties:

- Refuel vehicles
- Perform minor service and maintenance such as washing the windshield, checking fluid levels and air pressure, and replacing parts such as tires, light bulbs and windshield-wiper blades
- Receive payment from customers
- Perform minor property maintenance duties such as sweeping service station lot, trimming shrubs, scrubbing service bays and painting curbs
- May pick up and deliver customers' cars for service station automotive repair department.

Marina service station attendants perform some or all of the following duties:

- Refuel boats
- Pump boat's marine septic system
- Rent boats, life jackets and other equipment and record rental data
- Receive payment from customers
- Maintain dock area and marina facilities and assist in seasonal moving of ramps and docks.

*Employment requirements*

- A casino gaming licence may be required for cashiers working in gambling casinos.
- Some secondary school education is usually required. High school diploma may be required by some employers.

## 6622 Store shelf stockers, clerks and order fillers

Store shelf stockers, clerks and order fillers pack customers' purchases, price items, stock shelves with merchandise, and fill mail and telephone orders. They are employed in retail establishments, such as grocery, hardware and department stores, and in warehouses.

*Illustrative example(s)*

- bag clerk
- grocery clerk
- grocery packer
- order filler - retail
- price clerk - retail
- produce clerk
- shelf stocker - retail
- supermarket clerk

*Exclusion(s)*

- Cashiers (see 6611 Cashiers)
- Comparison shoppers (see 6623 Other sales related occupations)
- Material handlers (see 7452 Material handlers)
- Meat counter clerks (see 6421 Retail salespersons)
- Stock clerks supervisors - retail (see 6211 Retail sales supervisors)

*Main duties*

Store shelf stockers, clerks and order fillers perform some or all of the following duties:

- Bag, box or parcel purchases for customers or for shipment or delivery to customers
- Carry customers' purchases to parking lot and pack in vehicles
- Unpack products received by store and count, weigh or sort items
- Use barcode scanning equipment to record incoming stock, verify pricing and maintain computerized stock inventory
- Price items using stamp or stickers according to price list
- Attach protective devices to products to protect against shoplifting
- Stock shelves and display areas and keep stock clean and in order
- Fill mail orders from warehouse stock
- Obtain articles for customers from shelf or stockroom
- Direct customers to location of articles sought
- May sweep aisles, dust display racks and perform other general cleaning duties
- May operate cash register and computer for electronic commerce transactions
- May order stock.

*Employment requirements*

- Some secondary school education is usually required.

## 6623 Other sales related occupations

This unit group includes workers who sell goods or services during home demonstrations or by telephone soliciting, retail exhibitions or street vending. They are employed by a wide range of retail and wholesale establishments, manufacturers, telemarketing companies and call centres, or they may be self-employed.

*Illustrative example(s)*

- canvasser - retail
- demonstrator - retail
- direct distributor - retail
- door-to-door salesperson
- home demonstrator - retail
- street vendor
- telemarketer
- telephone solicitor

*Exclusion(s)*

- Cashiers (see 6611 Cashiers)
- Kiosk sales clerks (see 6421 Retail salespersons)
- Retail and wholesale trade managers (see 0621 Retail and wholesale trade managers)
- Retail sales supervisors (see 6211 Retail sales supervisors)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Direct distributors contact potential customers by phone or through personal contacts, demonstrate and sell products directly to individual customers or at sales parties and deliver purchased goods to customers.
- Door-to-door salespersons solicit sales and sell merchandise to residents of private homes.
- Street vendors set up and display merchandise on sidewalks or at public events to sell to the public.
- Telephone solicitors and telemarketers contact businesses or private individuals, by telephone, to solicit sales for goods or services.
- Demonstrators arrange sales demonstration appointments, and show, describe and sell goods or services at wholesale, retail and industrial establishments, and at exhibitions, trade shows and private homes.

*Employment requirements*

- Propane and natural gas pump attendants may require an operator's licence.
- Some secondary school education is usually required.

*Additional information*

- Progression to related supervisory positions is possible with additional training or experience.

## 67 Service support and other service occupations, n.e.c.

This major group comprises service occupations that either require some secondary education, or have no specific educational requirements, and for which on-the-job training may be provided. It includes food counter attendants, kitchen helpers and related support occupations; support occupations in accommodation, travel and amusement services; cleaners; and other service support and related occupations not elsewhere classified.

## 671 Food counter attendants, kitchen helpers and related support occupations

This minor group includes food counter attendants, food preparers, kitchen helpers, food service helpers and dishwashers. They are employed by restaurants, cafes, hotels, fast food outlets, cafeterias, hospitals and other establishments.

## 6711 Food counter attendants, kitchen helpers and related support occupations

Food counter attendants and food preparers prepare, heat and finish cooking simple food items and serve customers at food counters. Kitchen helpers, food service helpers and dishwashers clear tables, clean kitchen areas, wash dishes, and perform various other activities to assist workers who prepare or serve food and beverages. They are employed by restaurants, cafés, hotels, fast food outlets, cafeterias, hospitals and other establishments.

*Illustrative example(s)*

- bartender helper
- bus boy/girl
- cafeteria counter attendant
- cook's helper
- dishwasher
- fast-food preparer
- food counter attendant
- food preparer
- food service helper
- ice cream counter attendant
- kitchen helper
- salad bar attendant
- sandwich maker

*Exclusion(s)*

- Chefs (see 6321 Chefs)
- Cooks (see 6322 Cooks)
- Food and beverage servers (see 6513 Food and beverage servers)
- Food service supervisors (see 6311 Food service supervisors)

*Main duties*

Food counter attendants and food preparers perform some or all of the following duties:

- Take customers' orders
- Clean, peel, slice and trim foodstuffs using manual and electric appliances
- Use deep fryer, grill, oven, dispensers and other equipment to prepare fast food items such as sandwiches, hamburgers, fries, salads, ice cream dishes, milkshakes and other beverages
- Portion, assemble, and wrap food or place it directly on plates for service to patrons, and package take-out food
- Use equipment to prepare hot beverages such as coffee and tea specialties
- Serve customers at counters or buffet tables
- Stock refrigerators and salad bars and keep records of the quantities of food used

- May receive payment for food items purchased.

Kitchen helpers perform some or all of the following duties:
- Wash and peel vegetables and fruit
- Wash work tables, cupboards and appliances
- Remove trash and clean kitchen garbage containers
- Unpack and store supplies in refrigerators, cupboards and other storage areas
- Sweep and mop floors, and perform other duties to assist cook and kitchen staff.

Food service helpers perform some or all of the following duties:
- Clear and clean tables and trays in eating establishments
- Bring clean dishes, flatware and other items to serving areas and set tables
- Replenish condiments and other supplies at tables and in serving areas
- Remove dishes before and after courses
- Perform other duties such as scraping and stacking dishes, carrying linen to and from laundry area and running errands.

Dishwashers perform some or all of the following duties:
- Wash dishes, glassware, flatware, pots and pans using dishwasher or by hand
- Place dishes in storage area
- Scour pots and pans, and may clean and polish silverware.

*Employment requirements*
- Self-employed street vendors and door-to-door salespersons may require a municipal merchant's permit.
- Some secondary school education is usually required. A High school diploma may be required by some employers.

*Additional information*
- Movement into other occupations within food preparation and service, such as cook or waiter, is possible with further training and experience.
- There is considerable mobility among jobs in this unit group.

## 672 Support occupations in accommodation, travel and amusement services

This minor group includes workers in support occupations in accommodation, travel and facilities set-up services and operators and attendants in amusement, recreation and sport. Workers in support occupations in accommodation, travel and facilities set-up are employed by hotels, conference centres, retail establishments, passenger transport companies and throughout the private and public sectors. Operators and attendants in amusement, recreation and sport are employed by amusement parks, fairs, exhibitions, carnivals, arenas, billiard parlours, bowling alleys, golf courses, ski centres, tennis clubs, campgrounds and other recreational and sports facilities.

### 6721 Support occupations in accommodation, travel and facilities set-up services

This unit group includes workers who carry hotel guests' luggage and escort guests to their rooms, carry travellers' luggage at airports, in railway stations and aboard ships, clean and maintain public areas and passengers' rooms aboard ships and trains, and set up rooms and associated furnishings, commercial displays, exhibits, equipment and booths in facilities and establishments. They are employed by hotels, conference centres, retail establishments, passenger transport companies and throughout the private and public sectors.

*Illustrative example(s)*
- baggage porter
- banquet porter
- bellhop
- cruise line passenger attendant
- facilities porter
- hotel doorkeeper
- hotel guest services attendant

- luggage attendant
- room flipper
- showcase installer
- train service attendant

*Exclusion(s)*

- Air transport ramp attendants (see 7534 Air transport ramp attendants)
- Material handlers (see 7452 Material handlers)
- Room service clerk - hotel (see 6525 Hotel front desk clerks)
- Support occupations in motion pictures, broadcasting, photography and the performing arts (see 5227 Support occupations in motion pictures, broadcasting, photography and the performing arts)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Guest service attendants
- Carry luggage for hotel guests, escort incoming guests to their rooms
- Check rooms to ensure they are in order
- Offer information regarding features of rooms, services of hotel and points of interest
- Assist guests with special needs
- Attend to group arrivals and departures
- Receive and deliver items and messages for guests
- Handle guest complaints and requests and maintain luggage storage areas.
- Baggage porters
- Convey travellers' luggage at railway stations and airports by hand or hand truck and arrange for ground transportation.
- Ship attendants
- Serve food and beverages, clean cabins, make beds and wash dishes
- Carry luggage for passengers aboard ships.
- Train service attendants
- Set and clear tables in dining cars, serve food and beverages, clean sleeping cars and maintain washroom supplies
- Ensure customer satisfaction and comfort.
- Facilities workers
- Set-up, install, reconfigure, relocate and dismantle temporary partitions and furnishings of rooms
- Assemble, rotate and disassemble window displays, showcases and signage according to floor plans or instructions
- Assist with installation of audiovisual equipment and help in resolving problems during use
- May perform minor repairs on installations and routine maintenance of audiovisual equipment.

*Employment requirements*

- Some secondary school education is usually required.

## 6722 Operators and attendants in amusement, recreation and sport

This unit group includes operators of amusement rides, games and other attractions, and attendants in amusement, recreation and sports facilities who assist patrons, collect tickets and fees and supervise the use of recreational and sports equipment. They are employed by amusement parks, fairs, exhibitions, carnivals, arenas, billiard parlours, bowling alleys, golf courses, ski centres, tennis clubs, campgrounds and other recreational and sports facilities.

*Inclusion(s)*

- park receptionist

*Illustrative example(s)*

- amusement attraction operator
- amusement park attendant
- amusement ride operator

- athletic equipment custodian
- billiard parlour attendant
- bingo hall attendant
- bowling alley attendant
- campground attendant
- game concession operator
- recreation attendant
- recreational facility attendant
- rink ice maker
- ski lift attendant
- sports attendant
- tennis court attendant

*Exclusion(s)*

- Casino occupations (see 6533 Casino occupations)
- Other personal service occupations (see 6564 Other personal service occupations)
- Other service support occupations, n.e.c. (see 6742 Other service support occupations, n.e.c.)
- Program leaders and instructors in recreation, sport and fitness (see 5254 Program leaders and instructors in recreation, sport and fitness)
- Supervisors of operators and attendants in amusement, recreation and sport (see 6316 Other services supervisors)

*Main duties*

Amusement attraction operators perform some or all of the following duties:

- Drive trucks, vans and other vehicles to transport amusement rides, games and other attractions to amusement attraction sites
- Set up rides, fun houses, game concessions and other amusement attractions
- Perform routine maintenance and safety inspections of attraction equipment
- Operate rides and other attractions, oversee game activities and ensure safety of participants
- May sell tickets.

Attendants in amusement, recreation and sport perform some or all of the following duties:

- Collect tickets and fees, and rent or sell sports and accessory equipment
- Schedule the use of recreational facilities such as golf courses, tennis courts, bowling alleys, fitness clubs, campgrounds and other similar facilities
- Operate recreational facility equipment such as ski lifts, ice rink equipment and snow making machines
- Assist patrons on and off ski lifts and amusement park rides, secure and release safety belts and bars and monitor equipment to detect wear and damage
- Clean and maintain recreational facilities and grounds.

*Employment requirements*

- On-the-job training is provided.
- Some secondary school education may be required.

## 673 Cleaners

This minor group includes light duty cleaners, specialized cleaners, janitors, caretakers and building superintendents. They are employed by hotels, motels and resorts; shopping and recreational facilities; hospitals, health care facilities and educational and other institutions; building management companies, cleaning service companies, condominium corporations and private individuals; and industrial, religious and other establishments; or they may be self-employed.

### 6731 Light duty cleaners

Light duty cleaners clean lobbies, hallways, offices and rooms of hotels, motels, resorts, hospitals, schools, office buildings and private residences. They are employed by hotels, motels, resorts, recreational facilities, hospitals and other institutions, building management companies, cleaning service companies and private individuals.

*Illustrative example(s)*

- cleaner
- hospital cleaner
- hotel cleaner
- house cleaner
- housekeeping aide
- housekeeping room attendant
- light duty cleaner
- office cleaner
- sweeper

*Exclusion(s)*

- Cleaning supervisors (see 6315 Cleaning supervisors)
- Janitors, caretakers and building superintendents (see 6733 Janitors, caretakers and building superintendents)
- Specialized cleaners (see 6732 Specialized cleaners)

*Main duties*

Light duty cleaners perform some or all of the following duties:

- Sweep, mop, wash, wax and polish floors
- Dust furniture and vacuum carpeting and area rugs, draperies and upholstered furniture
- Make beds, change sheets and distribute clean towels and toiletries
- Attend to guests' requests for extra supplies
- Stock linen closets and other supplies' areas
- Clean, disinfect and polish kitchen and bathroom fixtures and appliances
- Clean and disinfect public areas such as changing rooms, showers and elevators
- Disinfect operating rooms and other hospital areas
- Pick up debris and empty trash containers
- Wash windows, walls and ceilings.
- Report and store lost and found items
- May provide basic information on facilities
- May handle complaints.

*Employment requirements*

- On-the-job training is usually provided.
- Some secondary school education may be required.

*Additional information*

- Progression to supervisory cleaning positions is possible with additional training or experience.

## 6732 Specialized cleaners

Specialized cleaners clean and refurbish building exteriors, carpets, chimneys, industrial equipment, ventilation systems, windows and other surfaces, using specialized equipment and techniques. They are employed by specialized cleaning service companies or they may be self-employed.

*Illustrative example(s)*

- auto detailer
- building exterior cleaner
- carpet cleaner
- chimney cleaner
- freight car cleaner
- furnace cleaner
- laboratory equipment cleaner
- sandblaster
- septic tank cleaner

- upholstery cleaner
- vehicle cleaner
- ventilation system cleaner
- window cleaner

*Exclusion(s)*

- Cleaning supervisors (see 6315 Cleaning supervisors)
- Janitors, caretakers and building superintendents (see 6733 Janitors, caretakers and building superintendents)
- Light duty cleaners (see 6731 Light duty cleaners)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Carpet and upholstery cleaners operate cleaning machines to clean carpets, rugs and upholstered furniture on customers' premises or in carpet and upholstery cleaning establishments.
- Chimney cleaners clean soot and creosote from chimneys and fireplaces using hand tools and industrial vacuum cleaners.
- Furnace and ventilation system cleaners clean ducts, vents and filters of furnaces in residences and commercial buildings using hand tools and industrial vacuum cleaners.
- Sandblasters clean building exteriors, tanks, chimneys and industrial equipment using sandblasting, pressurized steam or hydroblasting equipment.
- Vehicle cleaners clean the interior and exterior of automobiles, buses, streetcars, railway cars and subway cars.
- Window cleaners wash and clean interior and exterior windows and other glass surfaces in low-rise and highrise buildings.

*Employment requirements*

- Certification for housekeeping room attendants or similar certification may be required by some employers.
- There are no specific education requirements for occupations in this unit group.
- There are no specific education requirements for occupations in this unit group.

*Additional information*

- Progression to supervisory positions is possible with additional training or experience.

## 6733 Janitors, caretakers and building superintendents

Janitors, caretakers and building superintendents clean and maintain the interior and exterior of commercial, institutional and residential buildings and their surrounding grounds. Building superintendents employed in large establishments are responsible for the operation of the establishment and may also supervise other workers. They are employed by office and apartment building management companies, condominium corporations, educational institutions, health care facilities, recreational and shopping facilities, religious, industrial and other establishments.

*Illustrative example(s)*

- building caretaker
- building superintendent
- custodian
- handyman/woman
- heavy-duty cleaner
- industrial cleaner
- plant cleaner
- school janitor

*Exclusion(s)*

- Cleaning supervisors (see 6315 Cleaning supervisors)
- Light duty cleaners (see 6731 Light duty cleaners)
- Specialized cleaners (see 6732 Specialized cleaners)

*Main duties*

Janitors, caretakers and building superintendents perform some or all of the following duties:

- Operate industrial vacuum cleaners to remove scraps, dirt, heavy debris and other refuse
- Wash windows, interior walls and ceilings
- Empty trash cans and other waste containers
- Sweep, mop, scrub and wax hallways, floors and stairs
- Clean snow and ice from walkways and parking areas
- Cut grass and tend grounds and plants
- Clean and disinfect washrooms and fixtures
- Make adjustments and minor repairs to heating, cooling, ventilating, plumbing and electrical systems, and contact tradespersons for major repairs
- Perform other routine maintenance jobs such as painting and drywall repair
- May move heavy furniture, equipment and supplies
- Ensure that security and safety measures are in place in the establishment
- May advertise vacancies, show apartments and offices to prospective tenants and collect rent
- May supervise other workers.

*Employment requirements*

- Completion of secondary school may be required.
- On-the-job training is usually provided.
- Previous experience in a related position may be required for some occupations in this unit group.

*Additional information*

- Progression to supervisory positions is possible with additional training or experience.

## 674 Other service support and related occupations, n.e.c.

This minor group includes workers in dry cleaning, laundry and related occupations; and in other service support occupations not elsewhere classified. They are employed in dry cleaning, laundry and fur cleaning establishments, in the laundries of hotels, hospitals and other institutions; and by a wide range of establishments; or they may be self-employed.

### 6741 Dry cleaning, laundry and related occupations

Dry cleaning and laundry machine operators operate machines to dry-clean or launder garments and other articles. Dry cleaning and laundry inspectors and assemblers check finished garments and other articles to ensure that they meet required standards for dry-cleaning, laundering and pressing, and assemble and bag finished garments and other articles. This unit group also includes workers who iron, press or otherwise finish garments and household articles. Workers in this unit group are employed in dry cleaning, laundry and fur cleaning establishments, and in the laundries of hotels, hospitals and other institutions.

*Illustrative example(s)*

- assembler - laundry and dry cleaning
- bagger - laundry and dry cleaning
- drapery cleaner
- dry cleaner
- dyer - laundry and dry cleaning
- finisher - laundry and dry cleaning
- fur cleaner - laundry and dry cleaning
- hand finisher - laundry and dry cleaning
- inspector - laundry and dry cleaning
- laundry machine operator
- laundry worker
- leather cleaner - laundry and dry cleaning
- presser - laundry and dry cleaning
- pressing machine tender - laundry and dry cleaning

- silk finisher - laundry and dry cleaning
- steam finisher - laundry and dry cleaning
- suede cleaner - laundry and dry cleaning

*Exclusion(s)*

- Alterationists (see 6342 Tailors, dressmakers, furriers and milliners)
- Dry cleaning and laundry services supervisors (see 6316 Other services supervisors)
- Dry cleaning service managers (see 0651 Managers in customer and personal services, n.e.c.)

*Main duties*

Dry cleaning and laundry machine operators perform some or all of the following duties:

- Operate dry cleaning machines to dry-clean dresses, suits, coats, sweaters and other garments, draperies, cushion covers and other articles
- Sort garments and operate washing machines and dryers to clean and dry clothing, sheets, blankets, towels and other articles
- Operate machines to clean and blow-dry fur garments
- Operate machines to dry-clean, dye, spray, re-oil, and re-buff suede and leather garments
- Mix and add detergents, dyes, bleaches, starches and other solutions and chemicals.

Dry cleaning and laundry inspectors and assemblers perform some or all of the following duties:

- Check finished garments and other articles to ensure that they are properly dry-cleaned or laundered
- Record damaged or improperly dry-cleaned or laundered garments and other articles
- Use hand-held steam iron to touch up finished garments and other articles
- Assemble and bag finished garments and other articles
- Match invoices with tags on garments or other articles.

Ironing, pressing and finishing workers perform some or all of the following duties:

- Operate finishing equipment such as steam pressers, and use hand irons to finish pants, jackets, shirts, skirts and other dry cleaned and laundered articles
- Hand iron laundered fine linens or dry-cleaned silk garments
- Operate fur ironing and glazing equipment to finish fur garments and other fur articles
- Fold and bag dry cleaned and laundered articles
- May operate laundering equipment.
- Workers in this group may specialize in finishing suede, leather, fur and delicate articles.

*Employment requirements*

- A journeyman/woman certificate in one or more of the trades or a building operator certificate may be required for building superintendents.
- Four to eight weeks of on-the-job training are usually provided.
- Some occupations in this unit group require previous cleaning and maintenance experience.
- Some secondary school education is required.

*Additional information*

- Progression to supervisory dry cleaning and laundry occupations is possible with additional training and experience.

## 6742 Other service support occupations, n.e.c.

This unit group includes other support occupations, not elsewhere classified, primarily concerned with the provision of services. Workers in this unit group are employed in a wide range of establishments or may be self-employed.

*Illustrative example(s)*

- beauty salon attendant
- car jockey
- cloakroom attendant
- door attendant (except hotel)
- funeral home attendant

- fur storage attendant
- hotel valet
- laundromat attendant
- parking lot attendant
- shoe shiner
- tanning salon attendant
- theatre usher
- ticket taker
- toll booth attendant

*Exclusion(s)*

- Operators and attendants in amusement, recreation and sport (see 6722 Operators and attendants in amusement, recreation and sport)
- Supervisors of service support workers in this unit group (see 6316 Other services supervisors)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Beauty salon attendants
- Shampoo, condition and dry customers' hair and assist hair stylists as directed
- Keep work areas clean.
- Door attendants
- Assist persons entering or leaving residential buildings, theatres and similar establishments
- May call taxis and assist with parcels.
- Funeral home attendants
- Drive hearses
- Arrange lights and floral displays
- Escort mourners and act as pallbearers
- Clean funeral parlours and chapels.
- Laundromat attendants
- Replenish vending machines
- Provide change
- Explain operation of machines to customers
- Clean the laundromat and arrange for the repair of broken machines
- May wash, dry and fold laundry for customers
- May operate dry cleaning machines for customers.
- Parking lot attendants and car jockeys
- Collect parking fees and issue ticket stubs
- Direct customers to parking spaces and park cars.
- Ticket takers and ushers
- Collect admission tickets or passes from patrons at entertainment events and direct patrons to their seats.
- Other workers in this group
- Perform services specific to the establishments in which their occupations are found.

*Employment requirements*

- Dry cleaning and laundry machine operators may require experience as inspectors or assemblers.
- Suede, leather and fur cleaners may require experience as dry cleaning or laundry machine operators.

## 7 Trades, transport and equipment operators and related occupations

These occupations include trades supervisors and contractors, construction and mechanical tradespersons, operators of transportation and heavy equipment and trades helpers. These occupations are found in a wide range of industrial sectors, with many in the construction and transportation industries.

This category includes most of the apprenticeable trades, including all those related to the construction industry. Other occupations in this category usually require completion of college or vocational education programs combined with on-the-job training. Helpers obtain training on the job site. Progression to supervisory positions or self-employed contractor status is possible with experience. There is limited mobility or transferability of skills among occupations in this category due to specific apprenticeship, training and licensing requirements for most occupations.

## 72 Industrial, electrical and construction trades

This major group comprises occupations in industrial, electrical and construction trades, which usually require three or more years of apprenticeship, or several years of work experience in the trade combined with related high school, college or industry courses. It includes occupations in machining, metal forming, shaping and erecting trades; electrical trades and electrical power line and telecommunications workers; plumbers, pipefitters and gas fitters; carpenters and cabinetmakers; masonry and plastering trades; and other construction trades, as well as related supervisors and contractors.

## 720 Contractors and supervisors, industrial, electrical and construction trades and related workers

This minor group includes industrial, electrical and construction trade contractors who own and operate their own businesses; and supervisors who supervise and co-ordinate the activities of workers in industrial, electrical and construction trades. They are employed by construction companies; electrical, mechanical, carpentry, bricklaying, masonry, cement and concrete, plastering, drywalling and lathing, roofing, insulation, painting, floor covering, construction glass installation, and plumbing and pipefitting trade contractors; maintenance departments of industrial, commercial and manufacturing establishments; machine shops; structural, platework and related metal products fabrication, manufacturing and erecting companies; electric power generation, transmission and distribution companies and public utility commissions; telephone, cable and satellite television and other telecommunications transmission companies; gas distribution companies; manufacturers of custom furniture and fixtures and of precast concrete products; service and repair shops; glass fabrication shops; and pest control companies; or they may be self-employed.

## 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations

This unit group includes sheet metal, ironwork, welding and boilermaking trade contractors who own and operate their own business. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: Machinists and Machining and Tooling Inspectors (7231), Tool and Die Makers (7232), Sheet Metal Workers (7233), Boilermakers (7234), Structural Metal and Platework Fabricators and Fitters (7235), Ironworkers (7236), Welders and Related Machine Operators (7237) and Machining Tool Operators (9417). They are employed by structural, platework and related metal products fabrication, manufacturing and erecting companies and machine shops.

*Illustrative example(s)*

- automotive machine shop foreman/woman
- blacksmith foreman/woman
- boilermaker foreman/woman
- boilermaker supervisor
- ironwork contractor
- ironworkers foreman/woman
- machine shop supervisor
- machinists foreman/woman
- machinists supervisor
- maintenance machine shop foreman/woman
- metal mould and metal patternmakers supervisor
- sheet metal workers supervisor
- structural metal fitter supervisor
- tool and die inspectors supervisor
- tool and die makers foreman/woman
- welder supervisor

*Exclusion(s)*

- CAD/CAM and CNC/CMM programmers (see 2233 Industrial engineering and manufacturing technologists and technicians)
- Supervisors, motor vehicle assembling (see 9221 Supervisors, motor vehicle assembling)
- Supervisors, other mechanical and metal products manufacturing (see 9226 Supervisors, other mechanical and metal products manufacturing)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who shape, form and join metal parts or products to specified dimensions, machine metal into parts, products, tools and dies or moulds with precise measurements and erect light and heavy metal products and structures
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare production and other reports
- Set up machines and equipment and write programs for computer numerically controlled (CNC) machine tools
- May manage the operations of their own companies
- May also supervise, co-ordinate and schedule the activities of related apprentices, machine operators, helpers and labourers.

*Employment requirements*

- A valid driver's licence is required for some occupations in this unit group, such as funeral attendant and car jockey.
- Completion of secondary school is usually required.
- There are no specific education requirements for occupations in this unit group.

## 7202 Contractors and supervisors, electrical trades and telecommunications occupations

This unit group includes telecommunications and electrical trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: Electricians (7241), Industrial Electricians (7242), Power System Electricians (7243), Electrical Power Line and Cable Workers (7244), Telecommunications Line and Cable Workers (7245), Telecommunications Installation and Repair Workers (7246) and Cable Television Service and Maintenance Technicians (7247). They are employed in a wide range of establishments; places of employment are indicated in the above unit group descriptions.

*Illustrative example(s)*

- cable maintenance and repair supervisor
- cablevision technicians foreman/woman
- construction electricians foreman/woman
- electrical contractor
- industrial electrical systems foreman/woman
- plant electrician supervisor
- power line and cable workers foreman/woman
- power system electrician foreman/woman
- residential electrician supervisor
- telecommunication installation and repair worker foreman/woman

*Exclusion(s)*

- Foreman/woman of electrical mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who install, repair and maintain electrical wiring, fixtures and control devices, power systems, telecommunication systems and cablevision systems
- Establish methods to meet work schedules and co-ordinate work activities with other departments or subcontractors
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare work progress reports
- May manage the operations of their own companies
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

*Employment requirements*

- Completion of secondary school is usually required.
- Journeyman/woman trade certification in machining, tool and die making or in another related metalworking trade is required.
- Several years of experience as a qualified machinist or tool and die maker are required.

*Additional information*

- There is some mobility between jobs within a specific trade; however, there is little or no intertrade mobility.

## 7203 Contractors and supervisors, pipefitting trades

This unit group includes plumbing and other pipefitting trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: Plumbers (7251), Steamfitters, Pipefitters and Sprinkler System Installers (7252) and Gas Fitters (7253). They are employed by construction companies, mechanical, plumbing and pipefitting trade contractors and maintenance departments of industrial, commercial and manufacturing establishments.

*Illustrative example(s)*

- gas fitters foreman/woman
- gas fitters supervisor
- pipefitters foreman/woman
- pipefitting contractor
- plumber foreman/woman
- plumbers supervisor
- plumbing contractor
- sprinkler system installer foreman/woman
- steamfitter foreman/woman
- steamfitters supervisor

*Exclusion(s)*

- Contractors and supervisors, other construction trades, installers, repairers and servicers (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who install, repair and maintain piping systems used for the transmission of steam, heat, water, oil and other liquids and gases in residential, commercial, industrial and other installations
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity

- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare schedules and other reports
- May manage the operations of their own companies
- May supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

*Employment requirements*

- Completion of secondary school is usually required.
- Journeyman/woman trade certification in a relevant trade is required.
- Several years of experience as a qualified tradesperson in a relevant trade are required.

*Additional information*

- There is little or no intertrade mobility among the supervisors in this unit group.

## 7204 Contractors and supervisors, carpentry trades

This unit group includes carpentry and cabinetmaking trade contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: Carpenters (7271) and Cabinetmakers (7272). They are employed by construction companies, carpentry contractors, maintenance departments of industrial establishments, and custom furniture and fixture manufacturing or repair companies.

*Inclusion(s)*

- general foreman/woman - residential construction
- residential construction supervisor

*Illustrative example(s)*

- cabinetmaking contractor
- carpenter supervisor
- carpentry contractor
- finish carpenters foreman/woman
- form builders foreman/woman
- framers foreman/woman
- maintenance carpenters foreman/woman

*Exclusion(s)*

- Construction managers (see 0711 Construction managers)
- Home building and renovation managers (see 0712 Home building and renovation managers)
- Supervisors, furniture and fixtures manufacturing (see 9224 Supervisors, furniture and fixtures manufacturing)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of carpenters who construct, renovate and maintain structures of wood and other building materials and build and install interior finishing in residential, commercial and industrial buildings; and of cabinetmakers who construct and repair custom wooden cabinets, furniture, fixtures and related products
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Ensure standards for safe working conditions are observed
- Prepare schedules and other reports
- May manage the operations of their own companies

- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

*Employment requirements*

- Completion of secondary school is usually required.
- Journeyman/woman trade certification in a relevant trade is required.
- Several years of experience as a qualified tradesperson in a relevant trade are required.

*Additional information*

- There is some mobility among jobs within a specific trade; however, there is little or no intertrade mobility.

## 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers

This unit group includes roofing, masonry, painting and other construction trade contractors, not elsewhere classified, who own and operate their own business. Supervisors in this unit group supervise and co-ordinate the activities of various tradespersons, installers, repairers and servicers classified in the following minor groups: Masonry and Plastering Trades (728), Other Construction Trades (729) and Other Installers, Repairers and Servicers (744). They are employed by a wide range of establishments; places of employment are indicated in the unit group descriptions. This unit group also includes prefabricated product installation and service contractors and proprietors of some repair and service establishments.

*Illustrative example(s)*

- bicycle repair shop supervisor
- bricklaying contractor
- cement finishing contractor
- glaziers foreman/woman
- insulators foreman/woman
- painters and decorators supervisor
- painting contractor
- pest control supervisor
- plasterer foreman/woman
- roofing contractor
- tilesetters supervisor

*Exclusion(s)*

- Contractors and supervisors, carpentry trades (see 7204 Contractors and supervisors, carpentry trades)
- Contractors and supervisors, pipefitting trades (see 7203 Contractors and supervisors, pipefitting trades)
- Electrical contractors and supervisors of electricians (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)
- Ironwork contractors and supervisors of ironworkers (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of construction workers engaged in bricklaying, roofing, cement finishing, tilesetting, plastering, drywall installation, glazing, insulating and painting, and workers who install and service prefabricated products in residential and commercial properties, as well as workers who repair a wide variety of products, such as musical instruments, sports equipment, vending machines, bicycles and cameras
- Establish methods to meet work schedules and co-ordinate work activities with other subcontractors
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare work progress reports
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

*Employment requirements*

- Completion of secondary school is usually required.
- Journeyman/woman trade certification as a carpenter or cabinetmaker is usually required.
- Several years of experience as a qualified carpenter or cabinetmaker are required.

*Additional information*

- There is little or no mobility among supervisors in this unit group.

## 723 Machining, metal forming, shaping and erecting trades

This minor group includes machinists, machining and tooling inspectors, tool and die makers, sheet metal workers, boilermakers, structural metal and platework fabricators and fitters, iron workers, welders and related machine operators. They are employed by machinery, equipment, vehicle, aircraft, shipbuilding and other metal products manufacturers; construction and electric power generation companies; tool and die, mould making, welding and machine shops; structural steel, boiler, sheet metal and platework fabrication plants; and by construction ironwork, sheet metal work and welding contractors; or they may be self-employed.

### 7231 Machinists and machining and tooling inspectors

Machinists set up and operate a variety of machine tools to cut or grind metal, plastic or other materials to make or modify parts or products with precise dimensions. Machining and tooling inspectors inspect machined parts and tooling in order to maintain quality control standards. They are employed by machinery, equipment, motor vehicle, automotive parts, aircraft and other metal products manufacturing companies and by machine shops.

*Illustrative example(s)*

- automotive machinist
- aviation machinist
- general machinist
- machine shop inspector
- machined parts inspector
- machining inspector
- machinist
- machinist apprentice
- tooling inspector

*Exclusion(s)*

- CAD-CAM programmers (see 2233 Industrial engineering and manufacturing technologists and technicians)
- Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Machining tool operators (see 9417 Machining tool operators)
- Tool and die makers (see 7232 Tool and die makers)

*Main duties*

Machinists perform some or all of the following duties:

- Read and interpret engineering drawings, blueprints, charts and tables or study sample parts to determine machining operation to be performed, and plan best sequence of operations
- Compute dimensions and tolerances and measure and lay out work pieces
- Set up, operate and maintain a variety of machine tools including computer numerically controlled (CNC) tools to perform precision, non-repetitive machining operations such as sawing, turning, milling, boring, planing, drilling, precision grinding and other operations
- Fit and assemble machined metal parts and subassemblies using hand and power tools
- Verify dimensions of products for accuracy and conformance to specifications using precision measuring instruments
- May set up and program machine tools for use by machining tool operators.

Machining and tooling inspectors perform some or all of the following duties:

- Verify dimensions of machined parts or tooling using micrometers, verniers, callipers, height gauges, optical comparators, co-ordinate measuring machines (CMM) or other specialized measuring instruments
- Maintain, repair and calibrate precision measuring instruments such as dial indicators, fixed gauges, height gauges and other measuring devices
- Report deviations from specifications and tolerances to supervisor
- Complete and maintain inspection reports.

*Employment requirements*

- Completion of a four-year apprenticeship program or A combination of over four years of work experience in the trade and some college and industry courses in machining may be required for trade certification.
- Completion of secondary school is usually required.
- Journeyman/woman trade certification may be required for some occupations in this unit group.
- Several years of experience in the trade or in the work area supervised are usually required.
- Trade certification for machinists (CNC) is available, but voluntary, in New Brunswick, Quebec and Manitoba.
- Trade certification for machinists is available, but voluntary, in all provinces and territories.
- Trade certification for tool and gauge inspectors is available, but voluntary, in Ontario.

*Additional information*

- Familiarity with exotic and composite materials may be required for machinists in aviation and other advanced manufacturing sectors.
- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7232 Tool and die makers

Tool and die makers make, repair and modify custom-made, prototype or special tools, dies, jigs, fixtures and gauges using various metals, alloys and plastics which require precise dimensions. They are employed primarily in manufacturing industries such as automobile, aircraft, metal fabrication, electrical machinery and plastics, and in tool and die, mould making and machine shops. This unit group also includes metal patternmakers and metal mould makers.

*Illustrative example(s)*

- die finisher
- die maker
- jig maker
- metal mould maker
- metal patternmaker
- metal patternmaker apprentice
- mould maker - plastics processing
- mould maker apprentice
- tool and die maker
- tool and die maker apprentice
- toolmaker

*Exclusion(s)*

- Machining tool operators (see 9417 Machining tool operators)
- Machinists and machining and tooling inspectors (see 7231 Machinists and machining and tooling inspectors)
- Manual and machine mould makers and core makers (see 9412 Foundry workers)
- Supervisors of tool and die makers, metal mould makers and patternmakers (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)

*Main duties*

Tool and die makers perform some or all of the following duties:

- Read and interpret engineering drawings and specifications of tools, dies, prototypes or models
- Prepare templates and sketches, and determine work processes
- Compute dimensions and tolerances and set up machine tools
- Position, secure, measure and work metal stock or castings to lay out for machining
- Set up, operate and maintain a variety of conventional and computer numerically controlled (CNC) machine tools to cut, turn, mill, plane, drill, bore, grind or otherwise shape workpiece to prescribed dimensions and finish
- Verify machined parts for conformance to specifications using precision measuring instruments such as verniers, callipers, micrometers, co-ordinate measuring machines (CMM) and electronic measuring devices
- Fit and assemble or disassemble parts using hand tools
- Test completed tools, dies, jigs or fixtures for proper operation
- May program CNC machine tools.

Metal patternmakers perform some or all of the following duties:

- Machine, fit and assemble castings and other parts to make precision models of required shape such as metal patterns, core boxes and match plates
- Lay out, shape and assemble patterns of metal, wood, plastic and other materials from blueprints, models or templates
- May program CNC machine tools.

Metal mould makers perform some or all of the following duties:

- Machine, fit and assemble parts to make metal moulds and cores for plastic injection moulding, or other production processes
- May program CNC machine tools.

*Employment requirements*

- Completion of a four- or five-year tool and die making apprenticeship program or A combination of over five years of work experience in the trade and some high school, college or industry courses in tool and die making is usually required to be eligible for tool and die trade certification.
- Completion of secondary school is usually required.
- Mould makers usually require completion of a four-year apprenticeship or college program in mould making.
- Red Seal endorsement is also available to qualified machinists upon successful completion of the interprovincial Red Seal examination.
- Red Seal endorsement is also available to qualified tool and die makers upon successful completion of the interprovincial Red Seal examination.
- Several years of experience as a machinist, tool and die maker or machining tool operator may be required for machining and tooling inspectors.
- Tool and die maker trade certification is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba and British Columbia.
- Trade certification for mould makers is available, but voluntary, in Quebec and Ontario.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7233 Sheet metal workers

Sheet metal workers fabricate, assemble, install and repair sheet metal products. They are employed by sheet metal fabrication shops, sheet metal products manufacturing companies, sheet metal work contractors and various industrial sectors.

*Inclusion(s)*

- place holder
- place holder
- sheet metal roofer

*Illustrative example(s)*

- apprentice sheet metal worker
- sheet metal fabricator
- sheet metal mechanic
- sheet metal worker
- tinsmith

*Exclusion(s)*

- Aircraft sheet metal technicians (see 7315 Aircraft mechanics and aircraft inspectors)
- Boilermakers (see 7234 Boilermakers)
- Ironworkers (see 7236 Ironworkers)
- Metalworking and forging machine operators (see 9416 Metalworking and forging machine operators)
- Structural metal and platework fabricators and fitters (see 7235 Structural metal and platework fabricators and fitters)
- Supervisors of sheet metal workers (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)

*Main duties*

Sheet metal workers perform some or all of the following duties:

- Read engineering and architectural drawings, sketches and work specifications to be performed, and lay out, measure and mark sheet metal according to drawings or templates
- Develop patterns for sheet metal using computer-assisted design and drafting (CAD) software package
- Operate light metalworking machines such as shears, brakes, punches, and drill presses, including computer numerical control (CNC) equipment to cut, bend, punch, drill, shape or straighten sheet metal
- Operate computerized laser or plasma cutting equipment to cut sheet metal
- Install and use rigging and hoisting equipment
- Fit and join sheet metal parts using riveting, welding, soldering and similar equipment to fabricate products such as ventilation shafts, exhaust hoods, eavestroughs, partition frames, air and heat ducts, material handling systems, roof decking and sheet metal buildings
- Install sheet metal products according to specifications and building codes
- Grind and buff seams, joints and rough surfaces
- Inspect product quality and installation to ensure conformance to specifications.
- Sheet metal workers may specialize in on-site installation or shop manufacture of sheet metal products, or servicing and maintenance of installed equipment and systems.

*Employment requirements*

- Completion of a three to five year apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in sheet metal working is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Patternmakers usually require completion of an apprenticeship or college program in patternmaking.
- Patternmaking trade certification is available, but voluntary, in Ontario.
- Trade certification for sheet metal workers is compulsory in New Brunswick, Quebec, Ontario, Saskatchewan and Alberta, and available, but voluntary, in all other provinces and the territories.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7234 Boilermakers

Boilermakers fabricate, assemble, erect, test, maintain and repair boilers, vessels, tanks, towers, heat exchangers and other heavy-metal structures. They are employed in boiler fabrication, manufacturing, shipbuilding, construction, electric power generation and similar industrial establishments.

*Illustrative example(s)*

- boiler fitter
- boiler installer
- boilermaker
- boilermaker apprentice
- construction boilermaker
- industrial boilermaker
- marine boilermaker
- pressure vessel fabricator

*Exclusion(s)*

- Ironworkers (see 7236 Ironworkers)
- Structural metal and platework fabricators and fitters (see 7235 Structural metal and platework fabricators and fitters)
- Supervisors of boilermakers (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Welders and related machine operators (see 7237 Welders and related machine operators)

*Main duties*

Boilermakers perform some or all of the following duties:

- Read blueprints or specifications to plan sequence of operation
- Lay out plate, sheet steel or other heavy metal and mark bending and cutting lines on work piece using protractors, compasses and drawing instruments or templates
- Set up and operate heavy-metal working machines such as brakes, rolls, shears, flame cutters and drill presses to cut, shape and form metal into parts or sections
- Fit and weld metal parts or sections together to fabricate boilers, vessels, tanks, heat exchangers, piping and other heavy-metal products
- Erect and install boilers and other heavy-metal products according to specifications using hand and power tools
- Repair and perform maintenance work on boilers and other heavy-metal products
- Direct activities of hoist or crane operators and other workers during fabrication, assembly, installation or repair of structures
- Test finished structures using a variety of methods.
- Boilermakers may specialize in rigging and hoisting, preparation and layout, or welding aspects of the trade.

*Employment requirements*

- Completion of a three- to four-year apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in boilermaking is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified sheet metal workers upon successful completion of the interprovincial Red Seal examination.
- Trade certification for precision sheet metal set-up operator is available, but voluntary in Quebec.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7235 Structural metal and platework fabricators and fitters

Structural metal and platework fabricators and fitters fabricate, assemble, fit and install steel or other metal components for buildings, bridges, tanks, towers, boilers, pressure vessels and other similar structures and products. They are employed in structural steel, boiler and platework fabrication plants and by heavy machinery manufacturing and shipbuilding companies.

*Illustrative example(s)*
- metal fabricator
- plater
- platework fitter
- shipfitter
- shipfitter apprentice
- steel fabricator
- structural steel fitter

*Exclusion(s)*
- Boilermakers (see 7234 Boilermakers)
- Metalworking and forging machine operators (see 9416 Metalworking and forging machine operators)
- Structural steel erectors (see 7236 Ironworkers)
- Supervisors of structural metal and platework fabricators and fitters (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Welders and related machine operators (see 7237 Welders and related machine operators)

*Main duties*

Structural metal and platework fabricators and fitters perform some or all of the following duties:
- Study engineering drawings and blueprints, determine the materials required, and plan the sequence of tasks to cut metal most efficiently
- Construct patterns and templates as guides for layouts
- Lay out reference points and patterns on heavy metal according to component specifications
- Rig, hoist and move materials to storage areas or within worksite
- Assemble and fit metal sections and plates to form complete units or subunits using tack welding, bolting, riveting or other methods
- Set up and operate various heavy-duty metal-working machines such as brake presses, shears, cutting torches, grinders and drills, including computer numerical control (CNC) equipment, to bend, cut, form, punch, drill or otherwise form heavy-metal components
- Install fabricated components in final product.

*Employment requirements*
- Completion of a three- to four-year apprenticeship program or A combination of over four years of work experience in the trade and some college or industry courses in structural steel and platework fabrication is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified boilermakers upon successful completion of the interprovincial Red Seal examination.
- Trade certification for marine technicians is available, but voluntary, in Nova Scotia and British Columbia.
- Trade certification for metal fabricators (fitters) is available, but voluntary, in all provinces.
- Trade certification is compulsory in Nova Scotia, New Brunswick, Quebec and Alberta and available, but voluntary, in all other provinces.

*Additional information*
- Progression to supervisory positions is possible with experience.
- Some structural metal and platework fabricators and fitters may also be certified as skilled welders.
- The Red Seal endorsement allows for interprovincial mobility.

## 7236 Ironworkers

Ironworkers fabricate, erect, hoist, install, repair and service structural ironwork, precast concrete, concrete reinforcing materials, curtain walls, ornamental iron and other metals used in the construction of buildings, bridges, highways, dams and other structures and equipment. They are employed by construction ironwork contractors.

*Illustrative example(s)*
- ironworker

- ironworker - metal building systems erector
- ironworker apprentice
- ornamental ironworker
- reinforcing ironworker
- structural steel erector

*Exclusion(s)*

- Boilermakers (see 7234 Boilermakers)
- Structural metal and platework fabricators and fitters (see 7235 Structural metal and platework fabricators and fitters)
- Supervisors of ironworkers (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)

*Main duties*

Ironworkers perform some or all of the following duties:

- Read blueprints and specifications to lay out work
- Unload and position steel units so each piece can be hoisted as needed
- Erect and install scaffolding, hoisting equipment and rigging
- Signal crane operator to position steel units according to blueprints
- Align and weld or bolt steel units in place
- Erect structural and architectural precast concrete components for buildings, bridges, towers and other structures
- Assemble and erect prefabricated metal structures
- Position and secure steel bars or metal mesh in concrete forms to reinforce concrete structures
- Install ornamental and other structural metalwork such as curtain walls, metal stairways, railings and power doors
- Examine structures and equipment for deterioration, defects or non-compliance with specifications
- May dismantle structures and equipment.

*Employment requirements*

- Completion of a two- to three-year apprenticeship program or Over three years of work experience in the trade and some high school, college or industry courses in ironworking are usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified metal fabricators (fitters) upon successful completion of the interprovincial Red Seal examination.
- Trade certification for boiler and related equipment assemblers and structural metal fabricators (non-construction) is available, but voluntary, in Quebec.
- Trade certification for ironworker (generalist) is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba and British Columbia.
- Trade certification for ironworker (reinforcing) is compulsory in Quebec and Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan and British Columbia.
- Trade certification for ironworker (structural/ornamental) is compulsory in Quebec and Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan and British Columbia.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7237 Welders and related machine operators

Welders operate welding equipment to weld ferrous and non-ferrous metals. This unit group also includes machine operators who operate previously set up production welding, brazing and soldering equipment. They are employed by companies that manufacture structural steel and platework, boilers, heavy machinery, aircraft and ships and other metal products, and by welding contractors and welding shops, or they may be self-employed.

*Illustrative example(s)*

- aviation welding technician
- brazing machine operator
- brazing machine setter
- electric arc welder
- journeyman/woman welder
- laser welding operator
- pressure vessel welder
- production welder
- soldering machine operator
- spot welder
- submerged arc welder
- welder
- welder apprentice
- welder-fitter

*Exclusion(s)*

- Supervisors of welders in this unit group (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Wave soldering machine operators (see 9523 Electronics assemblers, fabricators, inspectors and testers)
- Welding technologists (see 2212 Geological and mineral technologists and technicians)
- Welding testers (see 2261 Non-destructive testers and inspection technicians)

*Main duties*

Welders perform some or all of the following duties:

- Read and interpret blueprints or welding process specifications
- Operate manual or semi-automatic welding equipment to fuse metal segments using processes such as gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW), plasma arc welding (PAW), shielded metal arc welding (SMAW), oxy-acetylene welding (OAW), resistance welding and submerged arc welding (SAW)
- Operate manual or semi-automatic flame-cutting equipment
- Operate brazing and soldering equipment
- Operate metal shaping machines such as brakes, shears and other metal straightening and bending machines
- Repair worn parts of metal products by welding on extra layers.
- Welders may specialize in certain types of welding such as custom fabrication, ship building and repair, aerospace precision welding, pressure vessel welding, pipeline construction welding, structural construction welding, or machinery and equipment repair welding.

Welding, brazing and soldering machine operators perform some or all of the following duties:

- Operate previously set up welding machines such as spot, butt and seam resistance or gas and arc welding machines to fabricate or repair metal parts
- Operate previously set up brazing or soldering machines to bond metal parts or to fill holes, indentations and seams of metal articles with solder
- Start up, shut down, adjust and monitor robotic welding production line
- Assist with the maintenance and repair of welding, brazing and soldering equipment
- May adjust welding heads and tooling according to work specifications.

*Employment requirements*

- Completion of a three-year apprenticeship program or A combination of over three years of work experience in the trade and some college or industry courses in welding is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified ironworkers upon successful completion of the interprovincial Red Seal examination.
- Red Seal endorsement is also available to qualified welders upon successful completion of the interprovincial Red Seal examination.
- Several months of on-the-job training are usually provided.
- Some secondary school education is required.
- Trade certification for ironworker (metal building systems erector) is compulsory in Alberta.
- Trade certification is compulsory in Alberta and available, but voluntary, in all other provinces and the territories.
- Welders
- Welding, brazing and soldering machine operators

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 724 Electrical trades and electrical power line and telecommunications workers

This minor group includes electricians, including industrial and power system electricians; electrical power line and cable workers; telecommunications line and cable workers; telecommunications installation and repair workers; and cable television service and maintenance technicians. They are employed by electrical contractors; maintenance departments of buildings, factories, plants, mines, shipyards and other industrial establishments; electric power generation, transmission and distribution companies and public utility commissions; cable and satellite television companies; and by telephone and other telecommunications services establishments; or they may be self-employed.

### 7241 Electricians (except industrial and power system)

Electricians in this unit group lay out, assemble, install, test, troubleshoot and repair electrical wiring, fixtures, control devices and related equipment in buildings and other structures. They are employed by electrical contractors and maintenance departments of buildings and other establishments, or they may be self-employed.

*Illustrative example(s)*

- apprentice electrician
- construction electrician
- construction electrician apprentice
- domestic and rural electrician
- electrician

*Exclusion(s)*

- Electrical mechanics (see 7333 Electrical mechanics)
- Industrial electricians (see 7242 Industrial electricians)
- Power system electricians (see 7243 Power system electricians)
- Supervisors of electricians (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)

*Main duties*

Electricians in this unit group perform some or all of the following duties:

- Read and interpret drawings, circuit diagrams and electrical code specifications to determine wiring layouts for new or existing installations
- Pull wire through conduits and through holes in walls and floors

- Install brackets and hangers to support electrical equipment
- Install, replace and repair lighting fixtures and electrical control and distribution equipment, such as switches, relays and circuit breaker panels
- Splice, join and connect wire to fixtures and components to form circuits
- Test continuity of circuits using test equipment to ensure compatibility and safety of system, following installation, replacement or repair
- Troubleshoot and isolate faults in electrical and electronic systems and remove and replace faulty components
- Connect electrical power to audio and visual communication equipment, signalling devices and heating and cooling systems
- Conduct preventive maintenance programs and keep maintenance records.

*Employment requirements*

- Completion of a four- to five-year apprenticeship program is usually required.
- Completion of secondary school is usually required.
- Experience as a machine operator helper may be required.
- Experience with robotics may be required.
- Trade certification for construction electricians is compulsory in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and Alberta and available, but voluntary, in British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Trade certification for electricians (domestic and rural) is compulsory in Newfoundland and Labrador and Ontario.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

### 7242 Industrial electricians

Industrial electricians install, maintain, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments.

*Illustrative example(s)*

- industrial electrician
- industrial electrician apprentice
- marine electrician
- mill electrician
- mine electrician
- plant electrician
- plant maintenance electrician
- shipyard electrician

*Exclusion(s)*

- Construction electricians (see 7241 Electricians (except industrial and power system))
- Power system electricians (see 7243 Power system electricians)
- Supervisors of industrial electricians (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)

*Main duties*

Industrial electricians perform some or all of the following duties:

- Read and interpret drawings, blueprints, schematics and electrical code specifications to determine layout of industrial electrical equipment installations
- Install, examine, replace or repair electrical wiring, receptacles, switch boxes, conduits, feeders, fibre-optic and coaxial cable assemblies, lighting fixtures and other electrical components
- Test electrical and electronic equipment and components for continuity, current, voltage and resistance

- Maintain, repair, install and test switchgear, transformers, switchboard meters, regulators and reactors
- Maintain, repair, test and install electrical motors, generators, alternators, industrial storage batteries and hydraulic and pneumatic electrical control systems
- Troubleshoot, maintain and repair industrial, electrical and electronic control systems and other related devices
- Conduct preventive maintenance programs and keep maintenance records
- May install, maintain and calibrate industrial instrumentation and related devices.

*Employment requirements*

- Completion of a four- or five-year industrial electrician apprenticeship program or A combination of over five years of work experience in the trade and some high school, college or industry courses in industrial electrical equipment is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified construction electricians upon successful completion of the interprovincial Red Seal examination.
- Trade certification for electrical control (machine) builders is available, but voluntary, in Ontario.
- Trade certification for industrial electricians is compulsory in Prince Edward Island, Quebec and Manitoba and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, New Brunswick, Ontario, British Columbia and the Yukon.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7243 Power system electricians

Power system electricians install, maintain, test and repair electrical power generation, transmission and distribution system equipment and apparatus. They are employed by electric power generation, transmission and distribution companies.

*Illustrative example(s)*

- apprentice power system electrician
- power electrician
- power station electrician
- power system electrician

*Exclusion(s)*

- Electrical mechanics (see 7333 Electrical mechanics)
- Electrical power line and cable workers (see 7244 Electrical power line and cable workers)
- Electricians (except industrial and power system) (see 7241 Electricians (except industrial and power system))
- Industrial electricians (see 7242 Industrial electricians)
- Supervisors of power system electricians (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)

*Main duties*

Power system electricians perform some or all of the following duties:

- Install and maintain electrical power distribution equipment such as transformers, generators, voltage regulators, switches, circuit breakers, capacitors, inductors, and supervisory control and data acquisition (SCADA) systems
- Install and maintain electrical equipment and apparatus in generating stations or powerhouses
- Inspect and test installed electrical equipment and apparatus to locate electrical faults and check their operation, using volt meters, ammeters and other electrical test instruments and equipment
- Repair or replace faulty electrical equipment and apparatus
- Complete test and maintenance reports.

*Employment requirements*

- Additional construction electrician certification may be required for industrial electricians when the employers are not owners of the industrial electrical equipment.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified industrial electricians upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 7244 Electrical power line and cable workers

Electrical power line and cable workers construct, maintain and repair overhead and underground electrical power transmission and distribution systems. They are employed by electric power generation, transmission and distribution companies, electrical contractors and public utility commissions.

*Illustrative example(s)*

- apprentice lineman/woman - electric power systems
- cable installer - electrical power
- cable splicer - electrical power
- construction lineman/woman - electrical power line
- power line patroller
- power lineman/woman
- powerline technician

*Exclusion(s)*

- Other linemen/women and cable installers (see 7245 Telecommunications line and cable workers)
- Power system electricians (see 7243 Power system electricians)
- Supervisors of electrical power line and cable workers (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)

*Main duties*

Electrical power line and cable workers perform some or all of the following duties:

- Install, maintain, troubleshoot and repair electrical distribution and transmission systems including overhead and underground power lines and cables, insulators, conductors, lightning arrestors, switches, transformers and other associated equipment
- Erect and maintain steel, wood or concrete poles, towers and guy wires
- Splice, solder and insulate conductors and related wiring to connect power distribution and transmission networks using splicing tools, related electrical equipment and tools
- Inspect and test overhead and underground power lines and cables and auxiliary equipment using electrical test equipment
- Climb ladders or operate hydraulic buckets when working aloft on poles and towers, or work in confined spaces such as trenches and tunnels to install power lines and cables and associated equipment
- Install and maintain street lighting systems
- Communicate with other workers to co-ordinate the preparation and completion of work assignments.

*Employment requirements*

- Completion of a four-year apprenticeship program for power system electricians or A combination of over four years of work experience in the trade and some college or industry courses in electrical technology is usually required.
- Completion of a provincial three- or four-year lineman/woman apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in electrical technology is usually required for electrical power line and cable workers.
- Completion of secondary school is usually required.
- Trade certification for powerline technicians (construction) is available, but voluntary, in Newfoundland and Labrador.

- Trade certification for powerline technicians is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Trade certification is available, but voluntary, in Manitoba, Alberta, the Yukon, the Northwest Territories and Nunavut.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7245 Telecommunications line and cable workers

Telecommunications line and cable workers install, repair and maintain telecommunication lines and cables. They are employed by cable television companies and by telephone and other telecommunications services.

*Illustrative example(s)*

- apprentice lineman/woman - telecommunications
- communication technician - construction
- construction technician - cable television
- splicer technician - telephone
- telecommunication cable repairer
- telecommunications line installer
- telecommunications lineman/woman
- telephone line technician

*Exclusion(s)*

- Cable television service and maintenance technicians (see 7247 Cable television service and maintenance technicians)
- Electrical power line and cable workers (see 7244 Electrical power line and cable workers)
- Supervisors of telecommunications line and cable workers (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)
- Telecommunications installation and repair workers (see 7246 Telecommunications installation and repair workers)

*Main duties*

Telecommunications line and cable workers perform some or all of the following duties:

- Install, remove, maintain and repair aerial and underground telephone and other telecommunication transmission and distribution lines, cables and associated hardware
- Install (but do not repair or maintain) cable television lines and cables
- Splice and repair various types and sizes of telephone and other telecommunication cables including single line, coaxial and fibre optic
- Inspect and test telecommunication transmission lines and cables for transmission characteristics and to locate faults
- Analyze and record test results
- Climb and work aloft on poles, ladders or other support structures or work in confined spaces such as trenches, tunnels and crawl spaces
- Communicate with other workers to co-ordinate the preparation and completion of work assignments
- Assist in the erection and removal of telecommunication poles, towers and associated support structures
- May operate excavation machinery and other heavy equipment.

*Employment requirements*

- Completion of secondary school is required.
- Red Seal endorsement is also available to qualified powerline technicians upon successful completion of the interprovincial Red Seal examination.
- Trade certification for distribution construction linemen/women is available, but voluntary, in New Brunswick.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 7246 Telecommunications installation and repair workers

Telecommunications installation and repair workers install, test, maintain and repair telephones, telephone switching equipment and telecommunications equipment related to transmission and processing of voice, video signals and other data over a variety of media including fibre optics, microwave, radio and satellite. They are employed by telephone and other telecommunications transmission services establishments.

*Illustrative example(s)*

- apprentice communication electrician - switching
- cellular telephone technician
- exchange tester - telecommunications
- mobile radio installer
- private branch exchange (PBX) installer
- switch network installer and repairer
- telecommunications equipment technician
- telephone communication technician
- telephone installer
- telephone line and station installer

*Exclusion(s)*

- Electronic service technicians (household and business equipment) (see 2242 Electronic service technicians (household and business equipment))
- Supervisors of telecommunication installation and repair workers (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)
- Telecommunications line and cable workers (see 7245 Telecommunications line and cable workers)

*Main duties*

Telephone installers and repairers perform some or all of the following duties:

- Install, arrange, remove and maintain telephone equipment, wiring and associated hardware
- Test installed telephone systems to locate transmission faults
- Repair or replace defective and damaged telephones, wire and associated equipment.

Switch network installers and repairers perform some or all of the following duties:

- Install electromechanical, analog and digital trunking systems, circuits and equipment in telecommunications central offices and switching centres
- Inspect and test trunking systems, circuits and equipment
- Analyze test results and adjust, change or repair switching system, network, associated equipment and software.

Telecommunications service testers perform some or all of the following duties:

- Operate computerized testing systems to conduct service tests on customer lines and equipment
- Determine the nature, cause and location of service trouble
- Dispatch appropriate repair personnel
- Complete test reports and maintain test and service records
- May assist repair personnel to test lines, circuits and systems, isolate and clear cable faults and verify records.

Telecommunications equipment technicians perform some or all of the following duties:

- Install, remove and maintain various telecommunications equipment and related systems such as telex and facsimile machines, teletypewriters, mobile radios, cellular telephones, pagers and other telecommunications equipment
- Configure operating systems and install software for access to the Internet
- Inspect and test operation of telecommunications equipment
- Diagnose and locate equipment faults, and adjust, replace or repair telecommunications equipment.

*Employment requirements*

- Completion of a four-year telecommunications line and cable apprenticeship program or A combination of over three years work experience in the trade and some industry- related or other specialized courses or Completion of a two-year college program in electronics is usually required.
- Completion of secondary school is required.
- Telecommunications equipment technicians usually require completion of a college electrical and electronics program and several months of on-the-job training or Completion of a three- or four-year apprenticeship training program.
- Telephone and switch network installers and repairers require completion of an apprenticeship program ranging from three to four years or A combination of over three years work experience in the trade and some high school, college or industry related courses.
- Trade certification for network cabling specialists is available, but voluntary, in Ontario.

## 7247 Cable television service and maintenance technicians

Cable television service technicians install, maintain and repair cable and satellite television and Internet signal and associated equipment in homes and commercial buildings. Cable television maintenance technicians maintain and repair cable television transmission and distribution systems and associated hardware. They are employed by cable and satellite television companies.

*Illustrative example(s)*

- cable television installation technician
- cable television installer
- cable television maintenance technician
- cablevision servicer
- CATV technician
- direct broadcast satellite (DBS) technician - cable television

*Exclusion(s)*

- Supervisors of cable television service and maintenance technicians (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)
- Workers who install aerial or underground cable television lines (see 7245 Telecommunications line and cable workers)

*Main duties*

Cable television service technicians perform some or all of the following duties:

- Communicate with subscribers and company personnel to determine work assignments
- Connect, disconnect and relocate cable outlets, install splitters, converters, decoders, terminals, digital boxes, satellite and pay TV equipment, and install other cable hardware and systems at subscriber's premises
- Install cable modems, routers and software to enable Internet access at subscriber's premises
- Inspect, test and repair cable and satellite television signals and associated equipment at subscriber's premises.

Cable television maintenance technicians perform some or all of the following duties:

- Maintain and repair main aerial and underground coaxial and fibre optic cable television transmission lines, trunking and related distribution and interconnecting systems including power supplies and amplifiers
- Inspect, monitor, test and adjust cable transmission and distribution systems
- Repair or replace faulty cables, power supplies, amplifiers and other associated transmission and distribution equipment
- Climb and work aloft on poles, ladders or other support structures
- Communicate with other workers to co-ordinate the preparation and completion of work assignments.

*Employment requirements*

- Experience as an installer and repairer (telephone and switch network) is usually required for service testers.

- Trade certification for communication technicians is available, but voluntary, in Nova Scotia, Alberta, British Columbia, the Northwest Territories and Nunavut.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 725 Plumbers, pipefitters and gas fitters

This minor group includes plumbers, steamfitters, pipefitters, sprinkler system installers and gas fitters. They are employed by plumbing contractors; maintenance departments of factories, plants and similar establishments; pipefitting and sprinkler system contractors; and gas utility and gas servicing companies; or they may be self-employed.

### 7251 Plumbers

Plumbers install, repair and maintain pipes, fixtures and other plumbing equipment used for water distribution and waste water disposal in residential, commercial and industrial buildings. They are employed in maintenance departments of factories, plants and similar establishments, by plumbing contractors, or they may be self-employed.

*Illustrative example(s)*

- maintenance plumber
- plumber
- plumber apprentice
- plumbing mechanic

*Exclusion(s)*

- Gas fitters (see 7253 Gas fitters)
- Steamfitters, pipefitters and sprinkler system installers (see 7252 Steamfitters, pipefitters and sprinkler system installers)
- Supervisors of plumbers (see 7203 Contractors and supervisors, pipefitting trades)

*Main duties*

Plumbers perform some or all of the following duties:

- Read blueprints, drawings and specifications to determine layout of plumbing system, water supply network and waste and drainage systems
- Install, repair and maintain domestic, commercial or industrial plumbing fixtures and systems
- Locate and mark positions for pipe connections, passage holes and fixtures in walls and floors
- Cut opening in walls and floors to accommodate pipe and pipe fittings
- Measure, cut, bend and thread pipes using hand and power tools or machines
- Join pipes using couplings, clamps, screws, bolts, cement or soldering, brazing and welding equipment
- Test pipes for leaks using air and water pressure gauges
- May prepare cost estimates.

*Employment requirements*

- Completion of a college program in electronics or A combination of college, correspondence or industry courses related to electronics and electrical systems and on-the-job training or Completion of a four-year cable television technician apprenticeship program is required.
- Completion of a four- to five-year apprenticeship program or A combination of over five years of work experience in the trade and some high school, college or industry courses in plumbing is usually required to be eligible for trade certification.
- Completion of secondary school is required.
- Completion of secondary school is usually required.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7252 Steamfitters, pipefitters and sprinkler system installers

Steamfitters and pipefitters lay out, assemble, fabricate, maintain, troubleshoot and repair piping systems carrying water, steam, chemicals and fuel in heating, cooling, lubricating and other process piping systems. Sprinkler system installers fabricate, install, test, maintain and repair water, foam, carbon dioxide and dry chemical sprinkler systems in buildings for fire protection purposes. Steamfitters, pipefitters and sprinkler system installers are employed in maintenance departments of factories, plants and similar establishments, and by pipefitting and sprinkler system contractors, or they may be self-employed.

*Illustrative example(s)*

- apprentice pipefitter-steamfitter
- fire protection mechanic
- fire sprinkler fitter
- marine pipefitter
- pipefitter
- sprinkler system fitter
- sprinkler system installer
- steamfitter
- steamfitter-pipefitter

*Exclusion(s)*

- Gas fitters (see 7253 Gas fitters)
- Plumbers (see 7251 Plumbers)
- Residential and commercial installers and servicers (see 7441 Residential and commercial installers and servicers)
- Supervisors of steamfitters, pipefitters and sprinkler system installers (see 7203 Contractors and supervisors, pipefitting trades)

*Main duties*

Steamfitters and pipefitters perform some or all of the following duties:

- Read and interpret drawings, blueprints and specifications to determine layout requirements
- Cut openings for pipe in walls, floors and ceilings using hand or power tools or machines
- Select type and size of pipe required
- Measure, cut, thread and bend pipe to required shape using hand and power tools
- Weld, braze, cement, solder and thread joints to join pipes and fabricate sections of piping system
- Install supports, valves, piping and control systems
- Test system for leaks using testing equipment
- Clean and maintain pipe units and fittings and flush system
- Remove and replace worn components and reactivate system
- May prepare cost estimates for clients.

Sprinkler system installers perform some or all of the following duties:

- Read and interpret drawings, specifications and fire codes to determine layout requirements
- Install clamps, brackets and hangers to support piping system and sprinkler and fire protection equipment, using hand and power tools
- Select, measure, cut, ream and thread pipe, install sprinkler heads and mount prepared pipe in supports
- Join pipes and piping sections using soldering and welding equipment
- Connect piping system to water mains, supply tanks, pumps, compressors and control equipment
- Installs valves, alarms and associated equipment
- Test system for leaks using air or liquid pressure equipment
- Service and repair sprinkler system
- May prepare cost estimates for clients.

*Employment requirements*

- Completion of a four- to five-year apprenticeship program or A combination of over five years of work experience in the trade and some high school, college or industry courses in steamfitting, pipefitting or sprinkler system installation is usually required to be eligible for trade certification.

- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified plumbers upon successful completion of the interprovincial Red Seal examination.
- Sprinkler system installer trade certification is compulsory in Nova Scotia, New Brunswick, Quebec and Manitoba and available, but voluntary, in all other provinces and the territories.
- Steamfitter-pipefitter (non-construction) trade certification is compulsory in Quebec.
- Steamfitter-pipefitter trade certification is compulsory in Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba and Alberta and available, but voluntary, in all other provinces and the territories.
- Trade certification is compulsory in Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Saskatchewan and Alberta and available, but voluntary, in Newfoundland and Labrador, Manitoba, British Columbia, the Yukon, the Northwest Territories and Nunavut.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7253 Gas fitters

Gas fitters install, inspect, repair and maintain gas lines and gas equipment such as meters, regulators and heating units in residential, commercial and industrial establishments. They are employed by gas utility companies and gas servicing companies.

*Illustrative example(s)*

- gas fitter
- gas fitter apprentice
- gas servicer
- gas technician
- industrial gas fitter-tester

*Exclusion(s)*

- Appliance servicers and repairers (see 7332 Appliance servicers and repairers)
- Plumbers (see 7251 Plumbers)
- Steamfitters, pipefitters and sprinkler system installers (see 7252 Steamfitters, pipefitters and sprinkler system installers)
- Supervisors of gas fitters (see 7203 Contractors and supervisors, pipefitting trades)

*Main duties*

Gas fitters perform some or all of the following duties:

- Study drawings and specifications to determine the layout of the installation and materials required
- Measure and mark reference points for installation of gas lines and equipment
- Install and maintain gas meters and regulators and gas lines between gas unit and gas meter
- Install, maintain and service gas heating units and their components, such as burners, valves and automatic controls
- Test and replace defective equipment or components
- Test and adjust control mechanisms and check pipes and piping connections for gas leaks using gas detecting devices
- Attend to gas escape calls and assist in the investigation of gas fires and explosions
- Prepare reports on work performed and condition of facilities
- Advise clients regarding standards, safety features and maintenance of gas units and systems
- Convert motor vehicles or appliances to use natural gas fuels
- May repair and service gas appliances and related equipment.

*Employment requirements*

- Completion of a two- or three-year gas fitter apprenticeship program or Several years of work experience in a pipefitting trade and completion of a high school, college or industry gas fitter program are required.

- Completion of secondary school is usually required.
- Gas fitter trade certification is compulsory in Nova Scotia, Quebec, Alberta, British Columbia, the Northwest Territories and Nunavut and available, but voluntary, in Prince Edward Island, Manitoba and the Yukon.
- Red Seal endorsement is also available to qualified steamfitters-pipefitters and sprinkler system installers upon successful completion of the interprovincial Red Seal examination.
- Sprinkler system installer (non-construction) trade certification is compulsory in Quebec.

*Additional information*
- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 727 Carpenters and cabinetmakers

This minor group includes carpenters and cabinetmakers. They are employed by construction companies; carpentry and cabinetmaking contractors; maintenance departments of factories, plants and other establishments; and furniture manufacturing and repair companies; or they may be self-employed.

### 7271 Carpenters

Carpenters construct, erect, install, maintain and repair structures and components of structures made of wood, wood substitutes, lightweight steel and other materials. They are employed by construction companies, carpentry contractors, and maintenance departments of factories, plants and other establishments, or they may be self-employed.

*Inclusion(s)*
- log home builder

*Illustrative example(s)*
- apprentice carpenter
- carpenter
- carpenter-joiner
- finish carpenter
- journeyman/woman carpenter
- maintenance carpenter
- metal framer - carpentry
- renovation carpenter
- rough carpenter
- stair builder-carpenter

*Exclusion(s)*
- Cabinetmakers (see 7272 Cabinetmakers)
- Supervisors of carpenters (see 7204 Contractors and supervisors, carpentry trades)
- Woodworking machine operators (see 9437 Woodworking machine operators)

*Main duties*

Carpenters perform some or all of the following duties:
- Read and interpret blueprints, drawings and sketches to determine specifications and calculate requirements
- Prepare layouts in conformance to building codes, using measuring tools
- Measure, cut, shape, assemble and join materials made of wood, wood substitutes, lightweight steel and other materials
- Build foundations, install floor beams, lay subflooring and erect walls and roof systems
- Fit and install trim items, such as doors, stairs, moulding and hardware
- Maintain, repair and renovate residences and wooden structures in mills, mines, hospitals, industrial plants and other establishments

- Supervise apprentices and other construction workers
- May prepare cost estimates for clients.

*Employment requirements*

- A provincial gas fitter licence is usually required.
- Completion of a three- to four-year apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in carpentry is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified gasfitter - class A and class B upon successful completion of the interprovincial Red Seal examination.
- Trade certification for carpenters is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7272 Cabinetmakers

Cabinetmakers use a variety of woods and laminates to construct and repair wooden cabinets, furniture, fixtures and related products. They are employed by furniture manufacturing or repair companies, construction companies and cabinetmaking contractors, or they may be self-employed.

*Illustrative example(s)*

- cabinetmaker
- cabinetmaker apprentice
- custom wood furniture maker
- furniture cabinetmaker

*Exclusion(s)*

- Carpenters (see 7271 Carpenters)
- Supervisors of cabinetmakers (see 7204 Contractors and supervisors, carpentry trades)
- Woodworking machine operators (see 9437 Woodworking machine operators)

*Main duties*

Cabinetmakers perform some or all of the following duties:

- Study plans, specifications or drawings of articles to be made, or prepare specifications
- Mark outlines or dimensions of parts on wood
- Operate woodworking machines, such as power saws, jointers, mortisers and shapers, and use hand tools to cut, shape and form parts and components
- Trim joints and fit parts and subassemblies together to form complete unit using glue and clamps and reinforce joints using nails, screws or other fasteners
- Sand wooden surfaces and apply veneer, stain or polish to finished products
- Repair or restyle wooden furniture, fixtures and related products
- May estimate amount, type and cost of materials required.

*Employment requirements*

- Completion of a four-year apprenticeship program or A combination of over four years of work experience in the trade and some high school or college courses in cabinetmaking is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified carpenters upon successful completion of the interprovincial Red Seal examination.
- Trade certification for framers is available, but voluntary, in Saskatchewan.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 728 Masonry and plastering trades

This minor group includes bricklayers, concrete finishers, tilesetters, plasterers, drywall installers and finishers and lathers. They are employed by construction companies; bricklaying, cement, concrete, masonry, plastering, drywalling and lathing contractors; and manufacturers of precast concrete products; or they may be self-employed.

### 7281 Bricklayers

Bricklayers lay bricks, concrete blocks, stone and other similar materials to construct or repair walls, arches, chimneys, fireplaces and other structures in accordance with blueprints and specifications. They are employed by construction companies and bricklaying contractors or they may be self-employed.

*Illustrative example(s)*

- apprentice bricklayer
- bricklayer
- brickmason
- refractory bricklayer
- stonecutter
- stonemason

*Exclusion(s)*

- Concrete finishers (see 7282 Concrete finishers)
- Supervisors of bricklayers (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)
- Tilesetters (see 7283 Tilesetters)

*Main duties*

Bricklayers perform some or all of the following duties:

- Read sketches and blueprints to calculate materials required
- Cut and trim bricks and concrete blocks to specification using hand and power tools
- Prepare and lay bricks, concrete blocks, stone, structural tiles and similar materials to construct or repair walls, foundations and other structures in residential, industrial and commercial construction
- Lay bricks or other masonry units to build residential or commercial chimneys and fireplaces
- Lay radial bricks to build masonry shells of industrial chimneys
- Lay or install firebricks to line industrial chimneys and smokestacks
- Line or reline furnaces, kilns, boilers and similar installations using refractory or acid-resistant bricks, refractory concretes, plastic refractories and other materials
- Lay bricks, stone or similar materials to provide veneer facing to walls or other surfaces
- Construct and install prefabricated masonry units
- Lay bricks or other masonry units to build patios, garden walls and other decorative installations
- May restore, clean or paint existing masonry structures.

*Employment requirements*

- Completion of a three- to four-year apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in bricklaying is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified cabinetmakers upon successful completion of the interprovincial Red Seal examination.
- Trade certification for bricklayers is compulsory in Nova Scotia, New Brunswick and Quebec and available, but voluntary, in all other provinces and the Yukon.
- Trade certification for stonemasons is available, but voluntary, in Newfoundland and Labrador.

- Trade certification is available, but voluntary, in all provinces and territories.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7282 Concrete finishers

Concrete finishers smooth and finish freshly poured concrete, apply curing or surface treatments and install, maintain and restore various masonry structures such as foundations, floors, ceilings, sidewalks, roads, patios and highrise buildings. They are employed by construction companies, cement and concrete contractors and manufacturers of precast concrete products, or they may be self-employed.

*Illustrative example(s)*

- cement finisher apprentice
- cement mason
- concrete finisher
- concrete mason
- precast concrete finisher

*Exclusion(s)*

- Bricklayers (see 7281 Bricklayers)
- Concrete products machine operators (see 9414 Concrete, clay and stone forming operators)
- Supervisors of concrete finishers (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Concrete finishers perform some or all of the following duties:

- Check formwork, granular base and steel reinforcement materials and direct placement of concrete into forms or onto surfaces according to grade
- Fill hollows and remove high spots to smooth freshly poured concrete
- Operate power vibrator to compact concrete
- Level top surface of concrete according to grade and depth specifications using straightedge or float
- Impart desired finish to concrete surfaces using hand and power tools
- Install anchor bolts, steel plates, door sills and other fixtures in freshly poured concrete
- Apply hardening and sealing compounds to cure surface of concrete
- Waterproof, damp-proof and restore concrete surfaces
- Repair, resurface and replace worn or damaged sections of floors, walls, roads and other concrete structures.

*Employment requirements*

- Completion of a two- to four-year apprenticeship program or Over three years of work experience in the trade and some high school, college or industry courses in cement finishing are usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified bricklayers upon successful completion of the interprovincial Red Seal examination.
- Trade certification for concrete finishers is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Alberta and British Columbia.
- Trade certification for restoration stone masons is available, but voluntary, in Nova Scotia.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7283 Tilesetters

Tilesetters cover interior and exterior walls, floors and ceilings with ceramic, marble and quarry tile, mosaics or terrazzo. They are employed by construction companies and masonry contractors, or they may be self-employed.

*Illustrative example(s)*

- apprentice tilesetter
- ceramic tile installer
- marble setter
- terrazzo polisher
- terrazzo worker
- tile installer
- tilesetter

*Exclusion(s)*

- Bricklayers (see 7281 Bricklayers)
- Plasterers, drywall installers and finishers and lathers (see 7284 Plasterers, drywall installers and finishers and lathers)
- Supervisors of tilesetters (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Tilesetters perform some or all of the following duties:

- Prepare, measure and mark surface to be covered
- Build underbeds and install anchor bolts, wires and brackets
- Mix, apply and spread mortar, cement, mastic, glue or other adhesives using hand trowel
- Set tiles in position and apply pressure to affix tiles to base
- Align and straighten tile using levels, squares and straightedges
- Cut and fit tiles around obstacles and openings using hand and power cutting tools
- Pack grout into joints between tiles and remove excess grout
- Install tile strips
- Lay and set mosaic tiles to create decorative wall, mural and floor designs
- Mix, lay and polish terra surfaces
- Cut, polish and install marble and granite
- Remove and replace cracked or damaged tiles
- May prepare cost estimates and orders.

*Employment requirements*

- Completion of a three- or four-year apprenticeship program or A combination of over three years of work experience in the trade and some high school, college or industry courses in tilesetting is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified concrete finishers upon successful completion of the interprovincial Red Seal examination.
- Trade certification for cement masons is available, but voluntary, in Ontario.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7284 Plasterers, drywall installers and finishers and lathers

Plasterers apply finish, and maintain and restore plaster or similar materials, on interior and exterior walls, ceilings and building partitions to produce plain or decorative surfaces. Drywall installers and finishers install and finish drywall sheets and various types of ceiling systems. Lathers install support framework for ceiling systems, interior and exterior walls and building partitions. They are employed by construction companies and by plastering, drywalling and lathing contractors, or they may be self-employed.

*Illustrative example(s)*

- acoustical ceiling installer
- ceiling installer
- drywall applicator
- drywall finisher
- drywall installer and finisher apprentice
- drywall taper
- lather
- lather (interior systems mechanic)
- lather apprentice
- plasterer
- plasterer apprentice
- sheetrock applicator
- wood lather

*Exclusion(s)*

- Supervisors of trade workers in this unit group (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Plasterers perform some or all of the following duties:

- Clean and prepare surfaces
- Mix plaster ingredients in trough to desired consistency
- Apply, level and smooth coats of plaster using trowels, floats, brushes and spraying equipment
- Trowel or spray coats of stucco over exteriors of buildings to form weatherproof surfaces
- Finish corners and angles and create decorative designs in finish coat, if required
- Cure freshly plastered surfaces
- Mould and install ornamental plaster panels, cornices and trim
- Spray acoustic materials or texture finish over walls and ceilings.

Drywall installers and finishers perform some or all of the following duties:

- Measure, cut and fit drywall sheets for installation on walls and ceilings
- Position and secure sheets to metal or wooden studs or joists
- Cut and install metal corner beads to protect exterior corners
- Fill joints, nail indentations, holes and cracks with joint compound using trowel and broad knife
- Tape over joints using taping machine and embed tape in compound
- Smooth out excess compound and allow coat to dry
- Apply successive coats of compound and sand seams and joints
- Fabricate and install suspended metal ceiling grids and place in panels to form acoustical and coffered ceilings.

Lathers perform some or all of the following duties:

- Prepare wall and ceiling layouts
- Install metal stud framing and furring for interior drywall or plaster walls and ceilings, using hand and power tools
- Attach metal or gypsum lath to studs or furring using nails, screws, clips or wire ties
- Cut openings in lath for heating and ventilation piping, ducts and electrical outlets
- Install corner beads and wire mesh around beams to which plaster is to be applied
- May install acoustic tile, hangers for suspended ceilings and metal studs for composition wallboard or lath.

*Employment requirements*

- Completion of a three- or four-year apprenticeship program in plastering, drywalling or lathing or A combination of over three years of work experience and some high school, college or industry courses in plastering, drywalling or lathing is usually required.
- Completion of secondary school is usually required.
- Drywall installer and finisher trade certification is available, but voluntary, in British Columbia.
- Plasterer trade certification is compulsory in Quebec and available, but voluntary, in Ontario, Saskatchewan and British Columbia.
- Red Seal endorsement is also available to qualified tilesetters upon successful completion of the interprovincial Red Seal examination.
- Trade certification for tilesetters is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Saskatchewan, Alberta and British Columbia.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 729 Other construction trades

This minor group includes roofers, shinglers, glaziers, insulators, painters and decorators (except interior decorators) and floor covering installers. They are employed by construction companies; roofing and general contractors; construction glass installation contractors and glass fabrication, retail service and repair shops; insulation and floor covering contractors and carpet outlets; and painting and building maintenance contractors; or they may be self-employed.

### 7291 Roofers and shinglers

Roofers install, repair or replace flat roofs as well as shingles, shakes or other roofing tiles on sloped roofs. Shinglers install and replace shingles, tiles and similar coverings on sloped roofs. They are employed by roofing and general contractors, or they may be self-employed.

*Illustrative example(s)*

- apprentice roofer
- asphalt roofer
- built-up roofer
- flat roofer
- residential steep roofer
- roofer
- shingler
- single-ply roofer

*Exclusion(s)*

- Supervisors of roofers and shinglers (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Roofers perform some or all of the following duties:

- Install, repair or replace built-up roofing systems using materials such as asphalt saturated felts and hot asphalt and gravel
- Install, repair or replace single-ply roofing system using waterproof sheet materials such as modified plastics, elastomeric or other asphaltic compositions
- Install, repair or replace shingles, shakes and other roofing tiles on sloped roofs of buildings
- Install sheet metal flashings
- Apply waterproof coatings to concrete or other masonry surfaces below or above ground level
- Install and repair metal roofs using hand and power tools

- Set up scaffolding to provide safe access to roofs
- May estimate materials required and quote costs.

Shinglers perform some or all of the following duties:

- Install or replace asphalt shingles, wood shingles and shakes and masonry or baked clay roofing tiles on sloped roofs of buildings
- Set up scaffolding to provide safe access to roofs.

*Employment requirements*

- Completion of secondary school is usually required.
- For roofers, completion of a two- to three-year apprenticeship program or Over three years of work experience in the trade are usually required to be eligible for trade certification.
- Red Seal endorsement is also available to qualified lathers (interior systems mechanic) upon successful completion of the interprovincial Red Seal examination.
- Roofing trade certification is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.
- Trade certification for lathers (interior systems mechanics) is compulsory in Quebec and available, but voluntary, in all other provinces and the Yukon.
- Trade certification for residential steep roofers is available, but voluntary, in British Columbia.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7292 Glaziers

Glaziers cut, fit, install and replace glass in residential, commercial and industrial buildings, on exterior walls of buildings and other structures and in furniture and other products. They are employed by construction glass installation contractors, retail service and repair shops and glass fabrication shops, or they may be self-employed.

*Illustrative example(s)*

- glazier
- glazier and metal mechanic
- glazier apprentice
- plate glass installer
- stained glass glazier
- structural glass glazier

*Exclusion(s)*

- Glass forming and finishing machine operators and glass cutters (see 9413 Glass forming and finishing machine operators and glass cutters)
- Supervisors of glaziers (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Glaziers perform some or all of the following duties:

- Read and interpret blueprints and specifications to determine type and thickness of glass, frame, installation procedure and materials required
- Measure and mark glass and cut glass using glass cutters or computerized cutter
- Tint glass and create patterns on glass by etching, sandblasting or painting designs
- Assemble, erect and dismantle scaffolds, rigging and hoisting equipment
- Position glass panes into frames and secure glass using clips, points or mouldings
- Assemble and install prefabricated glass, mirrors or glass products on walls, ceilings or exteriors of building
- Fabricate metal frames for glass installation
- Install, fit, fabricate and attach architectural metals or related substitute products in commercial and residential buildings

- Install pre-cut mirrors and opaque and transparent glass panels in frames to form exterior walls of buildings
- Replace glass in furniture and other products
- Prepare and install skylights, showcases and aquariums and stained or other special glass in churches, museums, sports and other establishments
- Repair and service residential windows, commercial aluminum doors and other glass supporting structures, and replace damaged glass or faulty sealant
- May prepare cost estimates for customers or clients.

*Employment requirements*

- Completion of a three- or four-year apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in glazing is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified roofers upon successful completion of the interprovincial Red Seal examination.
- Shinglers require one to two years of on-the-job training.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7293 Insulators

Insulators apply insulation materials to plumbing, air-handling, heating, cooling and refrigeration systems, piping equipment and pressure vessels, and walls, floors and ceilings of buildings and other structures, to prevent or reduce the passage of heat, cold, sound or fire. They are employed by construction companies and insulation contractors, or they may be self-employed.

*Illustrative example(s)*

- boiler and pipe insulator
- building insulator
- firestopping insulator
- heat and frost insulator
- insulation applicator
- insulation mechanic
- insulator
- insulator apprentice
- sound insulator

*Exclusion(s)*

- Supervisors of insulators (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Insulators perform some or all of the following duties:

- Read and interpret drawings and specifications to determine insulation requirements and select type of insulation required
- Measure and cut insulating material to required dimensions using hand and power tools
- Apply and secure insulation using spraying, blowing, pasting, strapping, taping and other application and installation methods
- Fit insulation around obstructions and between studs and joists
- Install vapour barriers
- Apply waterproofing cement over insulating materials to finish surfaces
- Remove asbestos or urea-formaldehyde insulation from buildings when required.

*Employment requirements*

- Completion of a three- to four-year apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in insulating is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified glaziers upon successful completion of the interprovincial Red Seal examination.
- Trade certification for glaziers is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

### 7294 Painters and decorators (except interior decorators)

Painters and decorators apply paint, wallpaper and other finishes to interior and exterior surfaces of buildings and other structures. They are employed by construction companies, painting contractors and building maintenance contractors, or they may be self-employed.

*Illustrative example(s)*

- construction painter
- maintenance painter
- painter
- painter and decorator
- painter and decorator apprentice
- paperhanger

*Exclusion(s)*

- Automotive painters (see 7322 Motor vehicle body repairers)
- Industrial painters, coaters and metal finishing process operators (see 9536 Industrial painters, coaters and metal finishing process operators)
- Interior decorators (see 5242 Interior designers and interior decorators)
- Painters, sculptors and other visual artists (see 5136 Painters, sculptors and other visual artists)
- Supervisors of painters and decorators (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Painters and decorators perform some or all of the following duties:

- Read specifications to determine quantities of materials required
- Prepare and clean surfaces using methods such as scraping, sanding, sandblasting, hydro-blasting and steam-cleaning; remove old wallpaper and loose paint; repair cracks and holes in walls; and sandpaper and apply sealer
- Mix and thin paint to obtain desired colour and texture
- Apply paint or other materials, such as stains, lacquer, enamel, oil, varnish, fibreglass, metal coating or fire retardant using brushes, rollers or spray equipment
- Measure, cut and apply wallpaper or fabric to walls
- Assemble and erect scaffolding and swing stages
- May advise customer on selection of colour schemes and choice of wall coverings
- May provide cost estimates to clients.

*Employment requirements*

- Completion of a three- to four-year apprenticeship program or Over three years of work experience in the trade is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.

- Red Seal endorsement is also available to qualified insulators (heat and frost) upon successful completion of the interprovincial Red Seal examination.
- Trade certification for insulators (heat and frost) is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, Saskatchewan, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7295 Floor covering installers

Floor covering installers install carpet, wood, linoleum, vinyl and other resilient floor coverings in residential, commercial, industrial and institutional buildings. They are employed by construction companies, floor-covering contractors and carpet outlets, or they may be self-employed.

*Illustrative example(s)*

- carpet layer
- floor covering installer apprentice
- floor covering mechanic
- hardwood floor layer
- residential floor and wall covering installer
- resilient floor installer
- vinyl floor installer

*Exclusion(s)*

- Supervisors of floor covering installers (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Floor covering installers perform some or all of the following duties:

- Inspect, measure and mark surfaces to be covered
- Measure, cut and fasten underlay and underpadding
- Measure, cut and install carpeting using hand or machine stitcher, seaming iron, bonding tape or other bonding materials
- Stretch carpeting using knee-kicker or power stretcher and secure carpeting to floor or other surfaces using staple gun or other devices
- Measure, cut and install resilient floor covering using adhesive, rollers and other hand tools
- Install hardwood floors, such as strip floors, block floors or plank floors, using glue, staples, nails or other means
- Inspect and repair damaged floor coverings
- May estimate material and labour costs.

*Employment requirements*

- Completion of a two- to three-year apprenticeship program or Over four years of work experience in the trade and some courses in floor covering installation are usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified painters and decorators upon successful completion of the interprovincial Red Seal examination.
- Trade certification for painters and decorators is compulsory in Quebec and available, but voluntary, in all other provinces and the territories.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 73 Maintenance and equipment operation trades

This major group comprises occupations in maintenance and equipment operation trades, which usually require more than two years of apprenticeship or on-the-job training in the trade. It includes contractors and supervisors, maintenance trades and heavy equipment and transport operators; machinery and transportation equipment mechanics (except motor vehicles); automotive service technicians; other mechanics and related repairers; train crew operations occupations; crane operators, drillers and blasters; and printing press operators and other trades and related occupations, not elsewhere classified.

## 730 Contractors and supervisors, maintenance trades and heavy equipment and transport operators

This minor group includes maintenance trade contractors and heavy equipment and transport operator contractors who own and operate their own businesses; and supervisors who supervise and co-ordinate the activities of workers in maintenance and heavy equipment and transport operator trades. They are employed by railway transport companies and urban transit systems; utilities; aircraft manufacturing, maintenance, repair and overhaul establishments; airlines and other aircraft operators; industrial machinery and transportation equipment and vehicle manufacturers; companies that own and operate heavy equipment and heavy equipment dealers, rental and service establishments; elevator construction and maintenance companies; refrigeration and air conditioning installation contractors, retail and servicing establishments and food wholesalers; engineering firms; motor vehicle dealers, garages, truck and trailer dealerships, fleet maintenance companies, and service stations; heating systems installation and service companies; appliance repair shops service companies and repair departments of retail and wholesale establishments; and electrical repair shops, service shops of electrical equipment manufacturers and maintenance departments of manufacturing companies; or they may be self-employed.

## 7301 Contractors and supervisors, mechanic trades

This unit group includes heating, refrigeration, air conditioning, millwrighting and elevator and other equipment installation and mechanic trades contractors who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers classified in unit groups within the following minor groups: Machinery and Transportation Equipment Mechanics (Except Motor Vehicle) (731), Automotive Service Technicians (732) and Other Mechanics (733). They are employed in a wide range of establishments; places of employment are indicated in the unit group descriptions of the above minor groups.

*Illustrative example(s)*

- air conditioning and refrigeration mechanic foreman/woman
- aircraft maintenance engineers (AME) supervisor
- aircraft mechanics and inspectors foreman/woman
- appliance repair shop supervisor
- electrical mechanics foreman/woman
- heating systems contractor
- heating systems mechanics foreman/woman
- heavy machinery assembly foreman/woman
- industrial mechanics supervisor
- motor vehicle repair shop supervisor
- printing machine repairers foreman/woman
- railway car repairer foreman/woman
- railway equipment maintenance inspectors foreman/woman
- small-engine repair shop foreman/woman
- textile machine mechanics foreman/woman

*Exclusion(s)*

- Foremen/women of workers who repair electrical industrial equipment (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who repair and maintain aircraft, railway locomotives and cars, industrial machinery and equipment, construction and other heavy equipment, textile equipment, printing machines, heating equipment and furnaces, transformers and other electrical equipment, motor vehicles, air-conditioning and refrigeration equipment, electric appliances and other equipment, such as motorcycles, outboard motors and snowmobiles
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hiring and promotions
- Ensure that standards for safe working conditions are observed
- Prepare production and other reports
- May manage the operations of their own companies
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

*Employment requirements*

- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified floor covering installers upon successful completion of the interprovincial Red Seal examination.
- Trade certification for floor covering installers is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.

*Additional information*

- There is little or no intertrade mobility among the supervisors in this unit group.

## 7302 Contractors and supervisors, heavy equipment operator crews

This unit group includes excavating, grading, paving, drilling and blasting contractors who own and operate their own business. This unit group also includes supervisors who supervise and co-ordinate the activities of workers classified in the following unit groups: Crane Operators (7371), Drillers and Blasters - Surface Mining, Quarrying and Construction (7372), Water Well Drillers (7373), Longshore Workers (7451), Material Handlers (7452), Heavy Equipment Operators (Except Crane) (7521), Public Works Maintenance Equipment Operators and Related Workers (7522), Railway Yard and Track Maintenance Workers (7531), and Public Works and Maintenance Labourers (7621). They are employed in a wide range of establishments; places of employment are indicated in the above unit group descriptions.

*Illustrative example(s)*

- demolition foreman/woman
- drilling and blasting foreman/woman - construction
- excavating contractor
- heavy equipment operators supervisor
- logging road construction foreman/woman
- oil field construction supervisor
- paving contractor
- pipeline construction supervisor
- railway gang foreman/woman
- railway section foreman/woman
- railway track maintenance foreman/woman
- road maintenance foreman/woman
- track foreman/woman - railway
- water well drilling supervisor

*Exclusion(s)*

- Supervisors of heavy equipment mechanics (see 7301 Contractors and supervisors, mechanic trades)
- Supervisors of logging machinery operators (see 8211 Supervisors, logging and forestry)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who operate cranes and construction, paving, drilling, railway maintenance and other similar heavy equipment
- Establish methods to meet work schedules and co-ordinate work activities with other project supervisors or managers
- Requisition materials and supplies
- Resolve work problems and recommend measures to improve productivity
- Train or arrange for training of workers
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May manage the operations of own company
- May also supervise, co-ordinate and schedule the activities of related apprentices, helpers and labourers.

*Employment requirements*

- Completion of secondary school is usually required.
- Journeyman/woman trade certification in a relevant trade is required.
- Several years of experience as a qualified tradesperson in a relevant trade are usually required.

*Additional information*

- There is some mobility between occupations classified in this unit group.

## 7303 Supervisors, printing and related occupations

Supervisors in this unit group supervise and co-ordinate the activities of workers who produce camera work and printing plates and cylinders, process film, print text and illustrations on paper, metal and other material, and bind and finish printed products. They are employed by companies that specialize in commercial printing or one of its components, such as binding or colour reproduction, in combined printing and publishing companies, such as newspapers and magazines, and in various establishments in both the public and private sectors that have in-house printing departments.

*Illustrative example(s)*

- bindery foreman/woman - printing
- bindery supervisor - printing
- composing room supervisor - printing
- film processing supervisor
- finishing supervisor - printing
- photographic and film processing foreman/woman
- platemaking supervisor - printing
- prepress supervisor - printing
- pressroom supervisor - printing

*Exclusion(s)*

- Printing plant managers (see 0911 Manufacturing managers)
- Supervisors of desktop publishing operators (see 1211 Supervisors, general office and administrative support workers)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule activities of workers who produce camera work and printing plates and cylinders; process film; and print, bind and finish books, newspapers, business forms and other printed products

- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Review and approve all job proofs or samples in order to ensure quality of work meets client specifications
- Requisition materials and supplies
- Resolve work problems, provide technical advice and recommend measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hiring and promotions
- Prepare production and other reports
- May set up machines or equipment.

*Employment requirements*
- Completion of a college program in graphic arts technology may be required.
- Completion of secondary school is required.
- Journeyman/woman trade certification in a relevant trade may be required.
- Several years of experience in the occupation supervised is required.

*Additional information*
- Progression to management positions, such as department, production or plant manager, is possible with experience.

## 7304 Supervisors, railway transport operations

Supervisors in this unit group supervise and co-ordinate the activities of railway and yard locomotive engineers, railway yard workers and railway labourers. They are employed by railway transport companies.

*Illustrative example(s)*
- freight train road foreman/woman
- railway transport operations supervisor
- stationmaster
- trainmaster
- yard foreman/woman - railway
- yardmaster - railway

*Exclusion(s)*
- Supervisors of railway car repairers and locomotive mechanics (see 7301 Contractors and supervisors, mechanic trades)
- Supervisors of railway track maintenance crews (see 7302 Contractors and supervisors, heavy equipment operator crews)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:
- Supervise, co-ordinate and schedule the activities of workers who operate trains, drive locomotives in railway yards and perform other duties related to railway operations
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve performance
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hiring and promotions
- Prepare work reports.

*Employment requirements*
- A Canadian Rail Operating Rules certificate is required.
- Completion of secondary school is usually required.
- Provincial trade certification may be required for some occupations in this unit group.
- Several years of experience in the work area supervised is usually required.

### 7305 Supervisors, motor transport and other ground transit operators

Supervisors in this unit group supervise and co-ordinate activities of truck drivers, bus drivers, delivery drivers, subway and other transit operators, chauffeurs and taxi and limousine drivers. This unit group also includes bus dispatchers who co-ordinate the activities of transit system bus drivers and subway traffic controllers who operate and monitor signal and track switch control panels. They are employed by motor transportation and ground transit companies and by urban transit systems.

*Illustrative example(s)*
- bus dispatcher
- bus inspector
- light rail transit (LRT) operators supervisor
- school bus drivers supervisor
- subway operators supervisor
- subway traffic controller
- transit mobile inspector
- truck drivers foreman/woman
- urban transit system foreman/woman

*Exclusion(s)*
- Supervisors, railway transport operations (see 7304 Supervisors, railway transport operations)
- Train dispatchers (see 2275 Railway traffic controllers and marine traffic regulators)
- Truck transport and taxi dispatchers (see 1525 Dispatchers)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:
- Supervise, co-ordinate and schedule the activities of workers who operate trucks, buses, subway trains, light rail transit, street cars, taxis and other transport vehicles
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve performance
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hiring and promotions
- Dispatch bus drivers and monitor routes to ensure schedules are met and to resolve operating problems
- Monitor and operate signal and track switch control panel of subway systems
- Prepare work reports and budgets, and monitor expenditures.

*Employment requirements*
- A certificate in accordance with the Railway Employee Qualification Standards Regulations is required.
- Several years of railway operations experience are required.

*Additional information*
- There is little mobility between occupations in the different transportation sectors of this unit group.

### 731 Machinery and transportation equipment mechanics (except motor vehicles)

This minor group includes construction millwrights and industrial mechanics; heavy-duty equipment mechanics; refrigeration and air conditioning mechanics; railway carmen; aircraft mechanics and inspectors; machine fitters; and elevator constructors and mechanics. They are employed by millwrighting contractors, manufacturing plants, utilities and other industrial establishments; heavy equipment dealers, rental and service establishments and companies that own and operate heavy equipment; refrigeration and air conditioning installation contractors, food wholesalers, engineering firms and retail and servicing establishments; railway transport companies and urban transit systems; aircraft manufacturing, maintenance, repair and overhaul establishments, and airlines and other aircraft operators; industrial machinery and transportation equipment manufacturing industries; and elevator construction and maintenance companies.

## 7311 Construction millwrights and industrial mechanics

Construction millwrights and industrial mechanics install, maintain, troubleshoot, overhaul and repair stationary industrial machinery and mechanical equipment. This unit group includes industrial textile machinery mechanics and repairers. Construction millwrights are employed by millwrighting contractors. Industrial mechanics are employed in manufacturing plants, utilities and other industrial establishments.

*Illustrative example(s)*

- card fixer
- card grinder
- construction millwright
- industrial mechanic
- industrial mechanic apprentice
- industrial sewing machine mechanic
- knitting machine mechanic
- loom fixer
- loom technician
- maintenance millwright
- millwright
- millwright apprentice
- open-end technician
- plant equipment mechanic
- spinning fixer
- textile fixer
- textile machine mechanic
- textile machinery fixer
- treatment plant maintenance mechanic

*Exclusion(s)*

- Heavy-duty equipment mechanics (see 7312 Heavy-duty equipment mechanics)
- Industrial instrument technicians and mechanics (see 2243 Industrial instrument technicians and mechanics)
- Supervisors of industrial mechanics and millwrights (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Construction millwrights and industrial mechanics perform some or all of the following duties:

- Read blueprints, diagrams and schematic drawings to determine work procedures
- Install, align, dismantle and move stationary industrial machinery and mechanical equipment, such as pumps, fans, tanks, conveyors, furnaces and generators according to layout plans using hand and power tools
- Operate hoisting and lifting devices such as cranes, jacks and tractors to position machinery and parts during the installation, set-up and repair of machinery
- Inspect and examine machinery and equipment to detect and investigate irregularities and malfunctions
- Install, troubleshoot and maintain power transmission, vacuum, hydraulic and pneumatic systems, and programmable logic controls
- Adjust machinery and repair or replace defective parts
- Operate machine tools such as lathes and grinders to fabricate parts required during overhaul, maintenance or set-up of machinery
- Clean, lubricate and perform other routine maintenance work on machinery
- Construct foundations for machinery or direct other workers to construct foundations
- Assemble machinery and equipment prior to installation using hand and power tools and welding equipment.

*Employment requirements*

- Completion of a three- to four-year apprenticeship program or A combination of over five years of work experience and industry courses in industrial machinery repair or millwrighting is usually required to be eligible for trade certification.
- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of secondary school is usually required.
- Construction millwright trade certification is available, but voluntary, in Quebec and Ontario.
- Industrial mechanic (millwright) trade certification is available, but voluntary, in all provinces and territories.
- Several years of experience as a driver or operator of motor transport or ground transit equipment are usually required.
- Textile machinery mechanics hired from other industries may require additional training in textile processes and experience as a textile manufacturing machinery operator.

*Additional information*

- Construction millwrights are mostly engaged in the initial installation of industrial plant machinery and equipment; industrial mechanics are more concerned with the post-installation maintenance and repair of machinery and equipment.
- Industrial mechanics and millwrights may be cross-trained in a second trade such as pipefitting, welding, machining or electrical maintenance.
- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7312 Heavy-duty equipment mechanics

Heavy-duty equipment mechanics repair, troubleshoot, adjust, overhaul and maintain mobile heavy-duty equipment used in construction, transportation, forestry, mining, oil and gas, material handling, landscaping, land clearing, farming and similar activities. They are employed by companies which own and operate heavy equipment, and by heavy equipment dealers, rental and service establishments, railway transport companies and urban transit systems.

*Illustrative example(s)*

- agricultural equipment technician
- construction equipment mechanic
- diesel mechanic - heavy equipment
- farm equipment mechanic
- heavy equipment mechanic
- heavy mobile logging equipment mechanic
- heavy mobile mining equipment mechanic
- heavy-duty equipment mechanic apprentice
- heavy-duty equipment technician
- locomotive mechanic
- tractor mechanic

*Exclusion(s)*

- Construction millwrights and industrial mechanics (see 7311 Construction millwrights and industrial mechanics)
- Motor vehicle diesel engine mechanics (see 7321 Automotive service technicians, truck and bus mechanics and mechanical repairers)
- Supervisors of heavy equipment mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Heavy-duty equipment mechanics perform some or all of the following duties:

- Check bulldozers, cranes, graders and other heavy construction, agricultural, logging and mining equipment for proper performance and inspect equipment to detect faults and malfunctions
- Diagnose faults or malfunctions using computerized and other testing equipment to determine extent of repair required

- Adjust equipment and repair or replace defective parts, components or systems, using hand and power tools
- Test repaired equipment for proper performance and to ensure that work meets manufacturers' specifications
- Clean, lubricate and perform other routine maintenance work on equipment
- Service attachments and working tools such as harvesting and tillage equipment, blades, ploughs, winches and side booms
- May perform repair work on heavy trucks
- May attach components and adjust new farm equipment.
- Heavy-duty mechanics may specialize in specific types of machinery such as combines or tracked vehicles, or in engine overhaul, power shift transmissions, fuel injection, hydraulics or electronics.

*Employment requirements*

- Completion of a three- to five-year apprenticeship program or A combination of over four years of work experience and industry courses in heavy equipment repair is usually required to be eligible for trade certification.
- Completion of secondary school and training courses or a vocational program is usually required.
- Heavy-duty equipment technician trade certification is compulsory in Quebec and Alberta and available, but voluntary, in all other provinces and the territories.
- Industrial sewing machine mechanic trade certification is available, but voluntary, in Quebec.
- Red Seal endorsement is also available to qualified industrial mechanics or millwrights upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7313 Heating, refrigeration and air conditioning mechanics

Heating, refrigeration and air conditioning mechanics install, maintain, repair and overhaul residential central air conditioning systems, commercial and industrial refrigeration and air conditioning systems and combined heating, ventilation and cooling systems. They are employed by heating, refrigeration and air conditioning installation contractors, various industrial settings, food wholesalers, engineering firms and retail and servicing establishments. Transport refrigeration mechanics are included in this unit group.

*Illustrative example(s)*

- central air conditioning mechanic
- commercial air conditioning mechanic
- heating and cooling mechanic
- heating, ventilation and air conditioning (HVAC) mechanic
- refrigeration and air conditioning mechanic apprentice
- refrigeration mechanic
- transport refrigeration mechanic

*Exclusion(s)*

- Domestic refrigerator or window air conditioner servicers and repairers (see 7332 Appliance servicers and repairers)
- Supervisors of refrigeration and air conditioning mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Heating, refrigeration and air conditioning mechanics perform some or all of the following duties:

- Read and interpret blueprints, drawings or other specifications
- Measure and lay out reference points for installation

- Assemble and install refrigeration or air conditioning components such as motors, controls, gauges, valves, circulating pumps, condensers, humidifiers, evaporators and compressors using hand and power tools
- Measure and cut piping, and connect piping using welding and brazing equipment
- Install, troubleshoot and overhaul entire heating, ventilation, air handling, refrigeration and air conditioning systems
- Start up system and test for leaks using testing devices
- Recharge system with refrigerant, check and test regulators, calibrate system and perform routine maintenance or servicing
- Repair and replace parts and components for entire refrigeration, air conditioning, ventilation or heat pump systems
- May install, maintain and repair equipment in refrigerated trucks used to transport food or medical supplies
- May prepare work estimates for clients.

*Employment requirements*

- Agricultural equipment technician trade certification is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, Alberta and British Columbia.
- Completion of a three- to five-year apprenticeship program or A combination of over five years of work experience and industry courses in refrigeration and air conditioning repair is usually required to be eligible for trade certification.
- Completion of secondary school and training courses or a vocational program is usually required.
- Red Seal endorsement is also available to qualified heavy duty equipment technicians and agricultural equipment technicians upon successful completion of the interprovincial Red Seal examination.
- Trade certification for refrigeration and air conditioning mechanics is compulsory in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and Alberta and available, but voluntary, in all other provinces and the territories.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7314 Railway carmen/women

Railway carmen/women inspect, troubleshoot, maintain and repair structural and mechanical components of railway freight, passenger and urban transit rail cars. They are employed by railway transport companies and urban transit systems.

*Illustrative example(s)*

- rail vehicle mechanic
- railway car inspector
- railway carman/woman
- railway carman/woman apprentice
- streetcar and subway car mechanic

*Exclusion(s)*

- Locomotive mechanics (see 7312 Heavy-duty equipment mechanics)
- Railway car repairer foremen/women (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Railway carmen/women perform some or all of the following duties:

- Inspect interior and exterior components of freight, passenger and urban transit rail cars to determine defects and extent of wear and damage
- Repair and install railway car parts such as compressors, air valves, bearings, couplings, air cylinders and piping
- Repair and maintain electrical and electronic controls for propulsion and braking systems

- Repair defective or damaged metal and wood components, using hand and power tools
- Repair and repaint wooden fixtures
- Replace damaged windows and repair upholstery
- Test and adjust parts using testing gauges and other test equipment
- Perform and document routine maintenance.

*Employment requirements*

- Completion of secondary school is usually required.
- Red Seal endorsement is also available to qualified refrigeration and air conditioning mechanics upon successful completion of the interprovincial Red Seal examination.
- Trade certification for transport refrigeration mechanics is available, but voluntary, in New Brunswick and Alberta.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 7315 Aircraft mechanics and aircraft inspectors

Aircraft mechanics maintain, repair, overhaul, modify and test aircraft structural, mechanical and hydraulic systems. Aircraft inspectors inspect aircraft and aircraft systems following manufacture, modification, maintenance, repair or overhaul. Aircraft mechanics and aircraft inspectors are employed by aircraft manufacturing, maintenance, repair and overhaul establishments, and by airlines and other aircraft operators.

*Illustrative example(s)*

- aircraft gas turbine engine technician
- aircraft hydraulics mechanic
- aircraft inspector
- aircraft maintenance engineer (AME) (except avionics)
- aircraft mechanic
- aircraft repair and overhaul inspector
- aircraft repair shop inspector
- aircraft structural repair technician
- aircraft systems inspector
- aviation mechanical component shop technician
- certified aircraft technician
- flight test inspector

*Exclusion(s)*

- Aircraft assemblers and aircraft assembly inspectors (see 9521 Aircraft assemblers and aircraft assembly inspectors)
- Aircraft engine fitters and assemblers (see 7316 Machine fitters)
- Aircraft instrument, electrical and avionics mechanics, technicians and inspectors (see 2244 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Aircraft non-destructive inspection technicians (see 2261 Non-destructive testers and inspection technicians)
- Government airworthiness inspectors (see 2262 Engineering inspectors and regulatory officers)
- Supervisors of aircraft mechanics and aircraft inspectors (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Aircraft mechanics perform some or all of the following duties:

- Troubleshoot aircraft structural, mechanical or hydraulic systems to identify problems and adjust and repair systems according to specifications, technical drawings, manuals and established procedures
- Repair and overhaul aircraft structural, mechanical or hydraulic systems
- Install or modify aircraft engines and mechanical, hydraulic, flight control, fuel and pneumatic systems

- Dismantle airframes, aircraft engines or other aircraft systems for repair, overhaul and cleaning, and reassemble
- Perform and document routine maintenance
- Order and maintain inventory of parts and supplies.
- Aircraft mechanics usually specialize in working on specific aircraft systems such as engines, engine accessories, airframes, propellers, mechanical components or hydraulic systems and specific kinds of aircraft, such as light aircraft, jet transports and helicopters.

Aircraft inspectors perform some or all of the following duties:

- Inspect structural and mechanical systems of aircraft and ensure that these systems meet Transport Canada and company standards of performance and safety
- Inspect work of aircraft mechanics performing maintenance, repair and overhaul, or modification of aircraft and aircraft mechanical systems to ensure adherence to standards and procedures
- Maintain detailed repair, inspection and certification records of aircraft.

*Employment requirements*

- A college diploma in aircraft maintenance or Completion of a four-year apprenticeship program is usually required.
- Aircraft mechanics and inspectors who sign maintenance releases and certify airworthiness require an Aircraft Maintenance Engineer's (AME) licence issued by Transport Canada.
- Completion of an industry-offered apprenticeship program or three to four years of on-the-job training is usually required.
- Completion of secondary school is required.
- Several years of on-the-job training are required for aircraft mechanics.
- Trade certification for aircraft maintenance engineers is available, but voluntary, in Saskatchewan, the Northwest Territories and Nunavut.
- Trade certification for aircraft structural technicians is available, but voluntary, in British Columbia.
- Trade certification is available, but voluntary, in Ontario, Manitoba and British Columbia.

*Additional information*

- Aircraft mechanics and inspectors may acquire further endorsements to their AME licence allowing them to inspect and certify a broader range of aircraft and aircraft systems.
- Aircraft mechanics may progress to foreman/woman, shop supervisor or aircraft inspector.
- AME licences are issued in the following categories: M - Small and Large Aircraft, E - Electronic Systems, S - Aircraft Structures.
- With experience, aircraft inspectors may progress to shop inspector or supervisor.

## 7316 Machine fitters

Machine fitters fit, assemble and otherwise build heavy industrial machinery and transportation equipment, including aircraft engines. They are employed in industrial machinery and transportation equipment manufacturing industries.

*Illustrative example(s)*

- aircraft engine fitter
- assembly fitter
- heavy equipment fitter
- machine builder
- machine fitter
- machine tool builder
- mechanical fitter

*Exclusion(s)*

- Aircraft assemblers (see 9521 Aircraft assemblers and aircraft assembly inspectors)
- Assemblers of electrical industrial equipment (see 9525 Assemblers, fabricators and inspectors, industrial electrical motors and transformers)
- Mechanical assemblers and inspectors (see 9526 Mechanical assemblers and inspectors)
- Millwrights (see 7311 Construction millwrights and industrial mechanics)

- Supervisors of machine fitters (see 7301 Contractors and supervisors, mechanic trades)
- Welders and related machine operators (see 7237 Welders and related machine operators)

*Main duties*

Machine fitters perform some or all of the following duties:

- Read and interpret blueprints, sketches and diagrams to determine assembly operations
- Fit and assemble prefabricated metal parts to build heavy industrial machinery and equipment such as construction, farming, and processing machinery, railway vehicles and aircraft engines
- Move and align subassemblies and components using lifting and transporting devices such as overhead cranes
- Install major components such as gears, pumps, motors or hydraulic assemblies
- Inspect parts, subassemblies and finished products to ensure quality.

*Employment requirements*

- Aircraft inspectors require several years of experience as an aircraft mechanic.
- Completion of a mechanical apprenticeship program, such as millwrighting, machining, pipefitting, automotive service or heavy equipment repair or Completion of a four-year machine fitter apprenticeship program or Completion of five years of on-the-job training is usually required.
- Completion of secondary school is usually required.
- Industry certification from the Canadian Aviation Maintenance Council for some occupations in this unit group is available, but voluntary.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 7318 Elevator constructors and mechanics

Elevator constructors and mechanics assemble, install, maintain and repair freight and passenger elevators, escalators, moving walkways and other related equipment. They are employed by elevator construction and maintenance companies.

*Illustrative example(s)*

- elevator constructor
- elevator mechanic
- elevator mechanic apprentice
- escalator repairer

*Exclusion(s)*

- Elevator inspectors (see 2262 Engineering inspectors and regulatory officers)
- Supervisors of elevator constructors and mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Elevator constructors and mechanics perform some or all of the following duties:

- Read and interpret blueprints to determine layout of system components
- Perform preparatory construction work including steel work, wiring and piping
- Install elevators, escalators, moving walkways, dumbwaiters and related equipment according to specifications
- Connect car frames to counterweights with cables and assemble elevator cars
- Install and wire electric and electronic control system devices
- Install, test and adjust safety control devices
- Test operation of newly installed equipment
- Troubleshoot electrical or mechanical systems failures
- Disassemble defective units and repair or replace worn or suspect parts
- Adjust valves, ratchets, seals, brake linings and other components
- Carry out preventative maintenance programs to ensure public safety.

- Elevator constructors and mechanics may specialize in construction, maintenance or repair.

*Employment requirements*

- Certification in a related trade may be required.
- Completion of a two- to three-year college program in aircraft manufacturing or general fabrication is required for aircraft engine fitters.
- Completion of secondary school is usually required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 732 Automotive service technicians

This minor group includes automotive service technicians, truck and bus mechanics, mechanical repairers and motor vehicle body repairers. They are employed by motor vehicle dealers, garages, truck and trailer dealerships and fleet maintenance companies; service stations, automotive specialty shops, transportation companies and retail establishments which have automotive service shops; automobile dealerships, body repair shops and appraisal centres; and motor vehicle manufacturers.

### 7321 Automotive service technicians, truck and bus mechanics and mechanical repairers

Automotive service technicians, truck and bus mechanics and mechanical repairers inspect, diagnose, repair and service mechanical, electrical and electronic systems and components of cars, buses, and light and commercial transport trucks. They are employed by motor vehicle dealers, garages, truck and trailer dealerships, fleet maintenance companies, and service stations, automotive specialty shops, transportation companies and retail establishments which have automotive service shops. This unit group also includes mechanical repairers who perform major repairs and replacement of mechanical units on newly assembled motor vehicles. They are employed by motor vehicle manufacturing companies.

*Illustrative example(s)*

- apprentice motor vehicle mechanic
- automobile mechanic
- automotive service technician
- brake systems mechanic
- bus mechanic
- mechanical upgrader - motor vehicle manufacturing
- motor repairer - motor vehicle manufacturing
- transmission mechanic
- truck and transport mechanic
- truck-trailer repairer
- tune-up specialist - motor vehicle

*Exclusion(s)*

- Heavy-duty equipment mechanics (see 7312 Heavy-duty equipment mechanics)
- Motor vehicle assemblers, inspectors and testers (see 9522 Motor vehicle assemblers, inspectors and testers)
- Motor vehicle body repairers (see 7322 Motor vehicle body repairers)
- Recreation vehicle service technicians (see 7384 Other trades and related occupations, n.e.c.)
- Supervisors of motor vehicle mechanics (see 7301 Contractors and supervisors, mechanic trades)
- Supervisors, motor vehicle assembling (see 9221 Supervisors, motor vehicle assembling)
- Transport truck and trailer assemblers (see 9526 Mechanical assemblers and inspectors)

*Main duties*

Automotive service technicians perform some or all of the following duties:

- Review work orders and discuss work with supervisor

- Inspect motor in operation, road test motor vehicle, and test automotive systems and components using computerized diagnostic and other testing devices to diagnose and isolate faults
- Adjust, repair or replace parts and components of automotive systems including fuel system, brakes, steering and suspension, engine and drive train, emission control and exhaust, cooling and climate control, and electrical and electronic systems using hand tools and other specialized automotive repair equipment
- Test and adjust repaired systems to manufacturer's performance specifications
- Perform scheduled maintenance service, such as oil changes, lubrications and tune ups
- Advise customers on work performed, general vehicle condition and future repair requirements.

Mechanical repairers, motor vehicle manufacturing, perform some or all of the following duties:

- Inspect and test mechanical units, such as engines, transmissions, axles and brake systems, to locate faults and malfunctions
- Diagnose faults or malfunctions and confirm findings with supervisor to determine whether to repair or replace unit
- Repair or replace mechanical units or components using hand and power tools
- Test and adjust units to specifications for proper performance
- Complete reports to record problems and work performed.

Truck and transport and truck-trailer mechanics perform some or all of the following duties:

- Adjust, repair or replace parts and components of commercial transport truck systems including chassis, frame, cab, body, engine and drive train, air brakes, steering, and fuel, hydraulic, electrical and electronic systems
- Adjust, repair or replace parts and components of truck-trailer systems including structural, brake and electrical systems.
- Workers in this unit group may specialize in the following areas: engine and fuel systems, transmission systems, air conditioning, cooling and heating systems, steering, alignment, brakes, drive lines, suspension, electrical and electronic systems, truck-trailer repair or diagnostic services.

*Employment requirements*

- Automotive service technician (service station mechanic) trade certification is compulsory in Nova Scotia and available, but voluntary, in Prince Edward Island.
- Automotive service technician (steering, suspension and brakes) trade certification is compulsory in New Brunswick and Ontario.
- Automotive service technician (transmission) trade certification is compulsory in Ontario.
- Automotive service technicians
- Completion of a four- to five-year apprenticeship program or A combination of over four years of work experience in the trade and some high school, college or industry courses in elevator construction or repair is usually required to be eligible for trade certification.
- Completion of a four-year automotive service technician apprenticeship program or A combination of over four years of work experience and industry courses in automotive technology is required to be eligible for trade certification.
- Completion of a four-year truck and transport mechanic or truck-trailer repair apprenticeship or A combination of over four years of work experience and industry courses in truck or heavy duty equipment mechanics is required to be eligible for trade certification.
- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of secondary school and training courses or a vocational program is usually required.
- Elevator constructor and mechanic trade certification is compulsory in Quebec and Alberta and available, but voluntary, in British Columbia, the Northwest Territories and Nunavut.
- Mechanical repairers, motor vehicle manufacturing
- On-the-job training of two to three years is provided by employers.
- Red Seal endorsement is also available to qualified automotive service technicians upon successful completion of the interprovincial Red Seal examination.
- Trade certification for automotive service technicians is compulsory in Nova Scotia, Prince Edward Island, New Brunswick, Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Quebec, Manitoba, Saskatchewan, British Columbia, the Yukon, the Northwest Territories and Nunavut.

- Trade certification for truck and transport mechanics is compulsory in Nova Scotia, Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Quebec, Manitoba, Saskatchewan, British Columbia and the Yukon.
- Truck and transport and truck-trailer mechanics

*Additional information*

- Mechanical repairers employed in motor vehicle manufacturing may progress to motor vehicle mechanic positions through an apprenticeship program, or with experience, they may progress to supervisory positions in motor vehicle manufacturing.
- The Red Seal endorsement allows for interprovincial mobility.
- With additional training, mobility is possible between automobile and truck and transport mechanics.
- With experience, mechanics and technicians in this unit group may progress to supervisory positions.

## 7322 Motor vehicle body repairers

Motor vehicle body repairers repair and restore damaged motor vehicle body parts and interior finishing; repaint body surfaces; and repair and/or replace automotive glass. They are employed by automobile dealerships, automobile body repair shops and automobile appraisal centres. This unit group also includes metal repairers who repair defective automobile body parts and damage to the bodies of newly assembled cars. They are employed by motor vehicle manufacturers.

*Illustrative example(s)*

- autobody repairer
- automotive body mechanic
- automotive glass technician
- automotive painter - motor vehicle repair
- automotive painter apprentice
- metal finisher - motor vehicle manufacturing
- metal repairer - motor vehicle manufacturing
- motor vehicle body repairer apprentice
- motor vehicle body technician - truck
- painter - motor vehicle repair

*Exclusion(s)*

- Automotive service technicians, truck and bus mechanics and mechanical repairers (see 7321 Automotive service technicians, truck and bus mechanics and mechanical repairers)
- Painters - motor vehicle manufacturing (see 9536 Industrial painters, coaters and metal finishing process operators)
- Supervisors of motor vehicle body repairers and automotive painters (see 7301 Contractors and supervisors, mechanic trades)
- Supervisors, motor vehicle assembling (see 9221 Supervisors, motor vehicle assembling)

*Main duties*

Workers in this unit group perform some or all of the following duties:

- Review damage report and estimates of repair cost and plan work to be performed
- Repair and replace front end components, body components, doors and frame and underbody components
- Hammer out dents, buckles and other defects using blocks and hammers
- Operate soldering equipment or use plastic filler to fill holes, dents and seams
- Remove damaged fenders, panels and grills using wrenches and cutting torch and bolt or weld replacement parts into place
- Straighten bent frames using frame and underbody pulling and anchoring equipment
- File, grind and sand repaired body surfaces using hand and power tools
- Mask and tape auto body surfaces in preparation for painting
- Mix paint, blend and match colors
- Apply primers and repaint surfaces using brush or spray guns

- Repair and replace glass components such as windshields, windows and sunroofs
- Repair or replace interior components, such as seat frame assembly, carpets and floorboard insulation
- Inspect repaired vehicles and test drive vehicles for proper handling.

*Employment requirements*

- Apprenticeship training and trade certification for automotive glass technicians is available, but voluntary, in Nova Scotia, Ontario, Alberta and British Columbia.
- Auto body repairer certification is compulsory in Ontario and Alberta and available, but voluntary, in the Yukon and the Northwest Territories.
- Auto glass industry certification is usually required.
- Automotive glass installers and repairers
- Automotive painter certification is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Saskatchewan, British Columbia, the Yukon and the Northwest Territories.
- Automotive painters
- Completion of a three- to four-year motor vehicle body repair apprenticeship program or A combination of over three years of work experience in the motor vehicle body repair trade and completion of a high school or college automotive body repair program is usually required to be eligible for trade certification.
- Completion of a two- to three-year automotive painter apprenticeship program or A combination of one year of work experience in the automotive painter trade and completion of a high school or college automotive painting program is usually required for automotive painter trade certification.
- Completion of secondary school is usually required.
- Completion of secondary school is usually required.
- Completion of secondary school is usually required.
- Motor vehicle body repairers
- Red Seal endorsement is also available to qualified automotive painters upon successful completion of the interprovincial Red Seal examination.
- Red Seal endorsement is also available to qualified motor vehicle body repairers (metal and paint) upon successful completion of the interprovincial Red Seal examination.
- Red Seal endorsement is also available to qualified truck-trailer repairers and truck and transport mechanics upon successful completion of the interprovincial Red Seal examination.
- Trade certification for motor vehicle body repairer (metal and paint) is compulsory in Nova Scotia, Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Manitoba, Saskatchewan, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Transport trailer technician trade certification is compulsory in Ontario and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Manitoba, British Columbia and the Yukon.

*Additional information*

- Metal repairers employed in motor vehicle manufacturing may progress to motor vehicle repairer positions through an apprenticeship program, or, with experience, they may progress to supervisory positions in motor vehicle manufacturing.
- The Red Seal endorsement allows for interprovincial mobility.
- With experience, motor vehicle body repair and automotive painter tradespersons may progress to supervisory positions.

## 733 Other mechanics and related repairers

This minor group includes oil and solid fuel heating mechanics; appliance servicers and repairers; electrical mechanics; motorcycle, all-terrain vehicle and other related mechanics; and other small engine and small equipment repairers. They are employed by heating systems installation and service companies; repair shops, appliance service companies and repair departments of retail and wholesale establishments; independent electrical repair shops, service shops of electrical equipment manufacturers and maintenance departments of manufacturing companies; service shops of motorcycle dealers and retailers; other dealer service shops; and independent service establishments; or they may be self-employed.

## 7331 Oil and solid fuel heating mechanics

Oil and solid fuel heating mechanics install and maintain oil, coal and wood heating systems in residential and commercial buildings. They are employed by heating systems installation and service companies.

*Illustrative example(s)*
- furnace installer and repairer (except gas)
- heating service mechanic
- heating systems technician
- oil burner installer
- oil burner mechanic
- oil burner mechanic apprentice
- wood burner installer

*Exclusion(s)*
- Gas fitters (see 7253 Gas fitters)
- Supervisors of oil and solid fuel heating mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Oil and solid fuel heating mechanics perform some or all of the following duties:
- Read and interpret drawings or specifications to determine work to be performed
- Lay out oil burner heating system components and assemble components using hand and power tools
- Install oil burner components such as thermostats, motors, piping and safety devices, and connect to fuel supply, ventilation and electrical system
- Test installed unit and adjust controls for proper functioning
- Troubleshoot and repair malfunctioning oil burners, and their components and controls
- Install, maintain and repair coal and wood heating systems
- Perform scheduled maintenance service on oil and solid fuel heating systems.

*Employment requirements*
- Completion of secondary school and training courses or a vocational program is usually required.
- Completion of secondary school is usually required.
- Metal repairers, motor vehicle manufacturing
- One to two years of on-the-job training are provided.

*Additional information*
- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7332 Appliance servicers and repairers

Appliance servicers and repairers service and repair domestic and commercial appliances. They are employed by repair shops, appliance service companies and repair departments of retail and wholesale establishments, or they may be self-employed.

*Illustrative example(s)*
- appliance service technician
- appliance service technician apprentice
- appliance servicer
- commercial foodservice appliance technician
- commercial laundry appliance technician
- dishwasher repairer
- refrigerator repairer
- service technician - electrical appliances
- service technician - gas appliances

- stove repairer
- vacuum cleaner repairer
- washing machine servicer
- window air conditioner repairer

*Exclusion(s)*

- Electronic service technicians (household and business equipment) (see 2242 Electronic service technicians (household and business equipment))
- Gas fitters (see 7253 Gas fitters)
- Other small engine and small equipment repairers (see 7335 Other small engine and small equipment repairers)
- Refrigeration and air conditioning mechanics (see 7313 Heating, refrigeration and air conditioning mechanics)
- Residential and commercial installers and servicers (see 7441 Residential and commercial installers and servicers)
- Supervisors of appliance servicers and repairers (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Small electrical appliance servicers and repairers perform some or all of the following duties:

- Repair small electrical appliances, such as lawn and garden equipment and power tools
- Consult customer or refer to work order to establish nature of the appliance malfunction
- Observe operation of appliance and conduct voltage, resistance and other tests using electrical test equipment
- Refer to schematic drawings or product manuals and replace or repair parts or components using hand tools and soldering equipment
- Prepare estimates and written accounts of work performed.

Major appliance repairers/technicians perform some or all of the following duties:

- Repair major electrical or gas appliances, such as domestic and commercial dishwashing equipment, stoves, laundry equipment and refrigerators in customer's home, in customer's place of business or in repair shop
- Consult customer or refer to work order to establish nature of the appliance malfunction
- Diagnose faults by checking controls, condensers, timer sequences, fans and other components using test equipment such as meters and gauges to measure resistance, current, voltage, pressure, temperature, flue gases and flow rates
- Refer to schematic diagrams or product manuals and disassemble appliance using hand tools
- Use shop equipment and specialized diagnostic and programming apparatus to repair, adjust and reprogram appliances
- Replace components and subcomponents and reassemble appliance using hand tools and soldering and brazing equipment
- Prepare estimates and written accounts of work performed
- May plan service routes.

*Employment requirements*

- Completion of a three- to four-year apprenticeship program or A combination of over four years of work experience and industry courses in heating systems installation and repair is usually required for trade certification.
- Completion of secondary school and training courses or a vocational program is usually required.
- Major appliance repairers/technicians require some secondary school education and completion of a college program in appliance repair or Completion of a three- or four-year apprenticeship program in appliance repair.
- Oil heat system technician trade certification is compulsory in Nova Scotia and New Brunswick and is available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Red Seal endorsement is also available to qualified oil heat system technicians upon successful completion of the interprovincial Red Seal examination.

- Small appliance repairers usually require some specialized college or high school courses or several months of on-the-job training.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7333 Electrical mechanics

Electrical mechanics maintain, test, rebuild and repair electric motors, transformers, switchgear and other electrical apparatus. They are employed by independent electrical repair shops, service shops of electrical equipment manufacturers and maintenance departments of manufacturing companies.

*Illustrative example(s)*

- armature winder repairer
- coil winder and repairer
- electric motor systems technician
- electrical mechanic
- electrical mechanic apprentice
- electrical rewind mechanic
- electrical transformer repairer
- industrial motor winder-repairer
- power transformer repairer
- transformer repairer

*Exclusion(s)*

- Aircraft electrical mechanics (see 2244 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Assemblers, fabricators and inspectors, industrial electrical motors and transformers (see 9525 Assemblers, fabricators and inspectors, industrial electrical motors and transformers)
- Industrial electricians (see 7242 Industrial electricians)
- Supervisors of electrical mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Electrical mechanics perform some or all of the following duties:

- Test and observe electrical, electronic and mechanical components and systems using testing and measuring instruments
- Troubleshoot and repair electric motors, transformers, switchgear, generators and other electro-mechanical equipment
- Replace or recondition shafts, bearings, commutators and other components
- Wind, assemble and install various types of coils for electric motors or transformers
- Perform static or dynamic balancing of armatures or rotors by welding, brazing or soldering electrical connections and by aligning and adjusting parts
- Test and repair or replace faulty wiring or components in electrical switchgear
- Test repaired motors, transformers, switchgear or other electrical apparatus to ensure proper performance
- Perform some machining to recondition or modify shafts, commutators or other parts
- Perform on-site servicing and repair.
- Electrical mechanics may specialize in working with certain types of apparatus, such as electric motors or transformers, or in performing certain functions, such as winding coils.

*Employment requirements*

- A provincial gas fitter licence, or gas appliance technician certificate, may be required for gas appliance service technicians.
- Appliance service technician, or appliance serviceperson, trade certification is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, British Columbia, the Northwest Territories and Nunavut.

- Completion of a four-year apprenticeship program or A combination of over four years of work experience and industry courses in electrical mechanics is usually required for trade certification.
- Completion of secondary school and training courses or a vocational program is usually required.
- Red Seal endorsement is also available to qualified appliance service technicians upon successful completion of the interprovincial Red Seal examination.
- Trade certification as an electric motor system technician is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Ontario, Manitoba, Alberta, British Columbia, the Yukon and Nunavut.

*Additional information*

- Although specialization may occur, workers in this unit group are required to be proficient in repairing all electrical apparatus.
- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7334 Motorcycle, all-terrain vehicle and other related mechanics

Mechanics in this unit group test, repair and service motorcycles, motor scooters, snowmobiles, outboard motors, forklifts and all-terrain vehicles. They are employed by service shops of motorcycle dealers and retailers and by independent service establishments.

*Illustrative example(s)*

- all-terrain vehicle repairer
- forklift mechanic
- industrial truck repairer
- motor boat mechanic
- motor scooter repairer
- motorcycle mechanic
- motorcycle mechanic apprentice
- outboard motor mechanic
- snowmobile repairer

*Exclusion(s)*

- Other small engine and small equipment repairers (see 7335 Other small engine and small equipment repairers)
- Supervisors of motorcycle, all-terrain vehicle and other related mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Mechanics in this unit group perform some or all of the following duties:

- Review work orders and discuss work to be performed with supervisor
- Inspect and test engine and other mechanical components using test devices to diagnose and isolate faults
- Adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment
- Test and adjust repaired systems for proper performance
- Perform scheduled maintenance service on equipment
- Advise customers on work performed and general condition of equipment
- Determine estimates of repair cost
- May repair and rebuild hoisting mechanism and other mechanical systems on industrial trucks and forklifts.

*Employment requirements*

- Completion of secondary school and training courses or a vocational program is usually required.
- Electrical motor and equipment repairer - winding trade certification is available, but voluntary, in Quebec.
- Electrical motor system technician (electrical utility) trade certification is available, but voluntary, in New Brunswick.

- For motorcycle mechanics, completion of a three- to four-year apprenticeship program or A combination of over three years of work experience and high school or college courses in motorcycle repair is usually required to be eligible for trade certification.
- Red Seal endorsement is also available to qualified electric motor system technicians upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.
- There is mobility among some occupations in this unit group.

### 7335 Other small engine and small equipment repairers

Workers in this unit group test, repair and service small gasoline and diesel-powered engines and equipment, such as garden tractors, lawn mowers and other related equipment. They are employed by dealer service shops and by independent service establishments.

*Illustrative example(s)*

- air-cooled engine mechanic
- gasoline powered lawn mower repairer
- lawn and garden equipment technician
- small engine technician
- small equipment mechanic apprentice
- small equipment repairer

*Exclusion(s)*

- Appliance servicers and repairers (see 7332 Appliance servicers and repairers)
- Motorcycle, all-terrain vehicle and other related mechanics (see 7334 Motorcycle, all-terrain vehicle and other related mechanics)
- Supervisors of small engine and equipment mechanics (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Workers in this unit group perform some or all of the following duties:

- Review work orders and discuss work to be performed with supervisor
- Inspect and test engines and other mechanical components using test devices to diagnose and isolate faults
- Adjust, repair or replace mechanical or electrical system parts and components using hand tools and equipment
- Test and adjust repaired equipment for proper performance
- Perform scheduled maintenance service on equipment
- Advise customers on work performed and general condition of equipment
- Determine estimates of repair cost.

*Employment requirements*

- Completion of a three- to four-year apprenticeship program in small engine or equipment repair or A combination of several years of work experience and high school or college courses in small engine or equipment repair are usually required for trade certification.
- Completion of secondary school and training courses or a vocational program is usually required.
- Motorcycle mechanic trade certification is compulsory in Ontario and Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick and British Columbia.
- Other mechanics in this unit group may require several years of on-the-job training.
- Red Seal endorsement is also available to qualified motorcycle mechanics upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 736 Train crew operating occupations

This minor group includes railway and yard locomotive engineers, railway conductors and brakemen/women. They are employed by railway transport companies and industrial and commercial users of rail transport.

### 7361 Railway and yard locomotive engineers

Railway locomotive engineers operate railway locomotives to transport passengers and freight. They are employed by railway transport companies. Yard locomotive engineers operate locomotives within yards of railway, industrial or other establishments. They are employed by railway transport companies and industrial or commercial users of rail transport.

*Illustrative example(s)*

- locomotive engineer - railway
- railway engineer
- switch engineer - railway
- transfer hostler - railway
- yard engineer - railway

*Exclusion(s)*

- Subway and light rail transit operators (see 7512 Bus drivers, subway operators and other transit operators)
- Supervisors, railway transport operations (see 7304 Supervisors, railway transport operations)
- Train dispatchers (see 2275 Railway traffic controllers and marine traffic regulators)

*Main duties*

Railway locomotive engineers perform some or all of the following duties:

- Operate locomotives to transport passengers and freight on railways
- Operate communication systems to communicate with train crews and traffic controllers to ensure safe operation and scheduling of trains
- Inspect assigned locomotives and test operating controls and equipment.

Yard locomotive engineers perform some or all of the following duties:

- Operate locomotives to switch, couple and uncouple cars for loading and unloading
- Perform switching operations according to written switching orders or dispatched instructions
- Inspect locomotives, replenish fuel or perform routine maintenance on locomotives.

*Employment requirements*

- Completion of secondary school is usually required.
- Inboard/outboard mechanic trade certification is available, but voluntary, in Ontario and British Columbia.
- Outdoor power equipment technician trade certification, for specified types of equipment, is available, but voluntary, in Manitoba, Alberta, British Columbia, the Yukon, the Northwest Territories and Nunavut.
- Small engine or equipment mechanic trade certification is available, but voluntary, in Newfoundland and Labrador, Prince Edward Island, New Brunswick, Ontario and Nunavut.

*Additional information*

- Mobility between railway transport companies or between establishments employing locomotive engineers may be limited due to seniority provisions of collective agreements.

## 7362 Railway conductors and brakemen/women

Railway conductors co-ordinate and supervise the activities of passenger and freight train crew members. Brakemen check train brakes and other systems and equipment prior to train run, and assist railway conductors in activities en route. They are employed by railway transport companies.

*Illustrative example(s)*
- brakeman/woman
- conductor - switching yard
- freight train conductor
- front-end brakeman/woman
- passenger train conductor
- railway conductor
- road freight brakeman/woman
- tail-end brakeman/woman

*Exclusion(s)*
- Railway and yard locomotive engineers (see 7361 Railway and yard locomotive engineers)
- Supervisors, railway transport operations (see 7304 Supervisors, railway transport operations)

*Main duties*

Railway conductors perform some or all of the following duties:
- Supervise and co-ordinate the activities of passenger and freight train crew members (except locomotive engineers) to ensure train operations are in accordance with schedule, train orders and code of operating rules
- Receive train orders and explain orders to brakemen/women, locomotive engineer and other crew members
- Communicate with train crew members by radio, signals or by other means to give and receive train operation information
- Collect fares on board passenger trains, announce approaching train stops and answer passenger enquiries
- Prepare train run reports.

Brakemen/women perform some or all of the following duties:
- Check train systems and equipment such as air conditioning and heating systems, brakes and brake hoses prior to train run
- Communicate with train crew members by radio, signals or by other means to aid in the movement and operation of train
- Receive orders from traffic controllers, observe signals and track conditions and open and close track switches
- Set and release hand brakes and connect air brake hoses to couple and switch passenger or freight cars, making minor repairs to couplings, air hoses and wheel-bearing boxes as required
- Assist in collecting fares and helping passengers on and off train.

*Employment requirements*
- Completion of secondary school is usually required.
- Experience as a brakeman/woman is required for conductors.
- Experience as a conductor is required for railway locomotive engineers and may be required for yard locomotive engineers.
- Experience as a railway yard worker may be required for yard locomotive engineers.
- Railway locomotive engineers require a Canadian Rail Operating Rules certificate.

*Additional information*
- With experience, brakemen/women may progress to railway conductors.
- With experience, railway conductors may progress to locomotive engineers.

## 737 Crane operators, drillers and blasters

This minor group includes crane operators; surface mining, quarrying and construction drillers and blasters; and water well drillers. They are employed by construction, industrial, cargo handling, railway, mining and quarrying companies; drilling and blasting and water well drilling contractors; and governments; or they may be self-employed.

### 7371 Crane operators

Crane operators operate cranes or draglines to lift, move, position or place machinery, equipment and other large objects at construction or industrial sites, ports, railway yards, surface mines and other similar locations. They are employed by construction, industrial, mining, cargo handling and railway companies.

*Inclusion(s)*

- rigger (except shipbuilding and aircraft assembly)

*Illustrative example(s)*

- boom truck crane operator
- bridge crane operator
- climbing crane operator
- construction crane operator
- crane operator
- dragline crane operator
- gantry crane operator
- hoist operator (except underground mining)
- mobile crane operator
- tower crane operator
- tractor crane operator

*Exclusion(s)*

- Heavy equipment operators (except crane) (see 7521 Heavy equipment operators (except crane))
- Hoist operators - underground mining (see 8231 Underground production and development miners)
- Supervisors of crane operators (see 7302 Contractors and supervisors, heavy equipment operator crews)

*Main duties*

Crane operators perform some or all of the following duties:

- Operate mobile and tower cranes to lift, move, position or place equipment and materials
- Perform pre-operational inspection, and calculate crane capacities and weight to prepare for rigging and hoisting
- Operate pile driving cranes to drive pilings into earth to provide support for buildings and other structures
- Operate cranes equipped with dredging attachments to dredge waterways and other areas
- Operate gantry cranes to load and unload ship cargo at port side
- Operate locomotive cranes to move objects and materials at railway yards
- Operate bridge or overhead cranes to lift, move and place plant machinery and materials
- Operate offshore oil rig cranes to unload and reload supply vessels
- Operate cranes mounted on boats or barges to lift, move and place equipment and materials
- Operate dragline cranes to expose coal seams and ore deposits at open pit mines
- May assemble tower cranes on site
- Perform routine maintenance work such as cleaning and lubricating cranes.

*Employment requirements*

- Brakemen/women require a Canadian Rail Operating Rules certificate.
- Completion of a one- to three-year apprenticeship program or Industry courses in crane operating are usually required.
- Completion of secondary school is usually required.
- Experience as a railway worker is usually required for brakemen/women.

- Hoist operator trade certification, for specified types of cranes, is compulsory in Quebec, Ontario, Manitoba, Alberta and British Columbia and is available, but voluntary, in New Brunswick, Saskatchewan, the Northwest Territories and Nunavut.
- Mobile crane operator trade certification, for specified types of cranes, is compulsory in Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Alberta and British Columbia and available, but voluntary, in all other provinces and the Northwest Territories.
- Railway conductors require a Canadian Rail Operating Rules certificate.
- Tower crane operator trade certification is compulsory in Newfoundland and Labrador, Nova Scotia, Quebec, Ontario, Manitoba, Alberta and British Columbia and available, but voluntary, in Prince Edward Island.

*Additional information*
- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7372 Drillers and blasters - surface mining, quarrying and construction

Drillers in this unit group operate mobile drilling machines to bore blast holes in open-pit mines and quarries and to bore holes for blasting and for building foundations at construction sites. Blasters in this unit group fill blast holes with explosives and detonate explosives to dislodge coal, ore and rock or to demolish structures. They are employed by mining, quarrying and construction companies and by drilling and blasting contractors.

*Illustrative example(s)*
- blaster - quarrying
- blaster - surface mining
- construction driller
- driller - surface mine
- open-pit blaster
- rotary drilling machine operator

*Exclusion(s)*
- Oil and gas well drillers (see 8232 Oil and gas well drillers, servicers, testers and related workers)
- Supervisors of construction drillers and blasters (see 7302 Contractors and supervisors, heavy equipment operator crews)
- Supervisors of surface mining drillers and blasters (see 8221 Supervisors, mining and quarrying)
- Underground mine drillers and blasters (see 8231 Underground production and development miners)
- Water well drillers (see 7373 Water well drillers)

*Main duties*

Drillers in this unit group perform some or all of the following duties:
- Drive and operate tracked or truck-mounted rotary drilling, air-track or other drilling machines to bore large blast holes to specified depths at staked positions in open-pit mine or quarry
- Operate drilling machines to drill blast holes in rock at road or other construction sites
- Operate tracked or truck-mounted drill equipped with auger or other attachment to drill holes for building foundations or pilings
- May measure location and stake out pattern of holes to be drilled, load blast holes with explosives and detonate explosives to dislodge coal, ore or rock.

Blasters in this unit group perform some or all of the following duties:
- Read instructions or diagrams, lay out drill pattern and determine depth and diameter of blast holes and conduct field tests to determine type and quantity of explosives required
- Assemble or direct other workers to assemble primer charges using selected detonators, fuses, detonating cords and other materials
- Load explosives in blast holes by hand or direct movement of bulk explosives trucks to load holes
- Connect electrical wires, detonating cords or fuses into series and connect series to blasting machines; press handle or button to detonate charges

- Handle, store and transport explosives and accessories in accordance with regulations and ensure that safety procedures are observed
- May operate air-track, rotary, down-the-hole or other drilling machines to drill blast holes or may direct drilling of blast holes.

*Employment requirements*

- Completion of secondary school is usually required.
- Experience as a heavy equipment operator may be required for drillers.
- Internal company certification as a crane operator may be required by some employers.
- Mobile crane operators may require a provincial licence to drive mobile cranes on public roads.
- On-the-job training is provided.
- Red Seal endorsement is also available to qualified mobile crane, tower crane and mobile crane (hydraulic) operators upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Drillers and blasters often perform both drilling and blasting activities.
- Progression to supervisory positions is possible with experience.

### 7373 Water well drillers

Water well drillers operate a variety of mobile water well drilling rigs and equipment to drill and monitor residential, commercial and industrial water wells. They are employed by water well drilling contractors and governments, or they may be self-employed.

*Illustrative example(s)*

- cable tool driller - water well drilling
- churn drill operator - water well drilling
- water well driller
- water well driller apprentice

*Exclusion(s)*

- Drillers - underground mining (see 8231 Underground production and development miners)
- Oil and gas well drillers, servicers, testers and related workers (see 8232 Oil and gas well drillers, servicers, testers and related workers)
- Surface mining, quarrying and construction drillers (see 7372 Drillers and blasters - surface mining, quarrying and construction)
- Water well drilling contractors and supervisors of water well drillers (see 7302 Contractors and supervisors, heavy equipment operator crews)

*Main duties*

Water well drillers perform some or all of the following duties:

- Review client requirements and proposed locations for water wells
- Operate water well drilling rigs and other equipment to drill, bore and dig for residential, commercial and industrial water wells or environmental assessment, and install well screens, casings and other well fixtures
- Document geological formations encountered
- Clean and disinfect wells in preparation for use
- Perform routine mechanical maintenance work on water well drilling rigs and equipment
- Install, test, maintain and repair water well pumps, piping systems and equipment and perform pumping tests to assess well performance
- May provide other drilling services, such as repair or dismantling of existing water well structure, elevator shaft drilling and hydro pole drilling.
- Water well drillers may specialize in a specific method of drilling, such as cable, rotary, auger, hammer or reverse circulation drilling.

*Employment requirements*

- Experience as a blaster helper in surface mining and quarrying or construction may be required for blasters.
- Provincial blasting licence is usually required for blasters.
- Trade certification for blasters is compulsory in Nova Scotia.

*Additional information*

- Mobility is possible among the various well drilling operators in this unit group.
- Progression to supervisory positions is possible with experience.

## 738 Printing press operators and other trades and related occupations, n.e.c.

This minor group includes printing press operators and other trades and related occupations, not elsewhere classified. They are employed by commercial printing companies; newspapers, magazines, and other publishing companies; establishments in the public and private sectors that have in-house printing departments; and a wide range of other establishments; or they may be self-employed.

### 7381 Printing press operators

Printing press operators set up and operate sheet and web-fed presses to print text, illustrations and designs on a wide variety of materials such as paper, plastic, glass, leather and metal. They are employed by commercial printing companies; newspapers, magazines, and other publishing companies; and establishments in the public and private sectors that have in-house printing departments.

*Illustrative example(s)*

- apprentice pressman/woman
- assistant pressman/woman
- first pressman/woman
- flexographic press operator
- offset press operator
- printing press operator
- rotogravure pressman/woman - printing

*Exclusion(s)*

- Operators of laser printers, colour and large copiers and printing machines (see 9471 Plateless printing equipment operators)
- Screen printing artisans (see 5244 Artisans and craftspersons)
- Supervisors, printing and related occupations (see 7303 Supervisors, printing and related occupations)
- Textile printers (see 9441 Textile fibre and yarn, hide and pelt processing machine operators and workers)

*Main duties*

Printing press operators perform some or all of the following duties:

- Review job orders to determine job specifications such as production time, colour sequence and quantities required, and advise press crew of these specifications
- Mount plates or cylinders and make necessary adjustments
- Fill ink fountains and take measurements, make adjustments and determine settings to control colour and viscosity
- Set up press and check samples for ink coverage, alignment and registration
- Monitor regular press runs for quality and consistency using computer control console and make adjustments as required
- Remove and clean plates and cylinders at end of press run
- Direct activities of press crew and ensure that safety procedures are adhered to.

*Employment requirements*

- Completion of a two- to three-year water well drilling apprenticeship program or Two to three years of work experience in the trade combined with college or industry courses in water well drilling is usually required to be eligible for trade certification.
- Completion of secondary school is usually required.
- Trade certification is available, but voluntary, in New Brunswick, Ontario, Saskatchewan, Alberta and British Columbia.

*Additional information*

- Progression to supervisory positions, such as pressroom supervisor, is possible with experience.

## 7384 Other trades and related occupations, n.e.c.

This unit group includes tradespersons and related skilled workers, not elsewhere classified, who repair, service, install, calibrate or fabricate a variety of products. This unit group includes commercial divers. They are employed by a wide range of establishments, or they may be self-employed.

*Illustrative example(s)*

- aircraft patternmaker
- blacksmith
- commercial diver
- die setter
- explosive ordnance detector
- farrier
- gunsmith
- locksmith
- reclamation diver
- recreation vehicle technician
- restoration steeplejack
- safe maker
- saw fitter
- small arms repairer
- toolsmith
- underwater contractor
- vault repairer

*Exclusion(s)*

- Automotive service technicians (see 732 Automotive service technicians)
- Motorcycle, all-terrain vehicle and other related mechanics (see 7334 Motorcycle, all-terrain vehicle and other related mechanics)
- Other small engine and small equipment repairers (see 7335 Other small engine and small equipment repairers)
- Police divers (see 4311 Police officers (except commissioned))
- Welders and related machine operators (see 7237 Welders and related machine operators)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Gunsmiths fabricate guns and repair and modify firearms according to blueprints or customers' specifications.
- Locksmiths repair, install and adjust locks, make keys and change lock combinations.
- Recreation vehicle technicians repair or replace electrical wiring, plumbing, propane gas lines, appliances, windows, doors, cabinets and structural frames in recreational vehicles.
- Safe and vault servicers install, repair and maintain safes and vaults in banks and other establishments.
- Saw fitters repair, set and sharpen band saws, chain saws, circular saws and other types of saw blades according to specifications.

- Die setters select dies for forging according to work order and specifications; position align and bolt dies to ram and anvil of power presses and hammers.
- Commercial divers perform underwater activities related to construction, inspection, search, salvage, repair and photography.

*Employment requirements*
- Commercial divers must meet the requirements of CSA Standard Z275.4-02, Competency Standard for Diving Operations.
- Commercial divers require an Occupational Diver Certificate of Competency issued by the Diver Certification Board of Canada (DCBC) or qualification earned through a formal education program, training courses in diving or a combination of education and practical experience.
- Completion of a college program in printing technology or A combination of on-the-job training and specialized high school, college or industry courses is usually required.
- Completion of a two- to four-year apprenticeship program in a relevant trade, such as locksmith, recreation vehicle technician or saw fitter or College, high school or industry courses combined with several years of related work experience or Several years of on-the-job training are required.
- Completion of secondary school is usually required.
- Completion of secondary school is usually required.
- Provincial trade certification or licensing may be required for other occupations in this unit group.
- Red Seal endorsement is also available to qualified recreation vehicle service technicians upon successful completion of the interprovincial Red Seal examination.
- Sawfiler/fitter and sawfitter trade certification is available, but voluntary, in Quebec, British Columbia and the Yukon.
- Trade certification for locksmiths is available, but voluntary, in Nova Scotia, New Brunswick, Saskatchewan, Alberta, British Columbia, the Northwest Territories and Nunavut.
- Trade certification for recreation vehicle service technicians is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, New Brunswick, Quebec, Ontario, Manitoba, British Columbia and the Yukon.
- Trade certification is available, but voluntary, in Québec.

*Additional information*
- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.
- There is little or no mobility among occupations in this unit group.

## 74 Other installers, repairers and servicers and material handlers

This major group comprises other installer, material handler, repairer and servicer occupations with some secondary school education or on-the-job training. It includes other installers, repairers and servicers, longshore workers and material handlers.

### 744 Other installers, repairers and servicers

This minor group includes residential and commercial installers and servicers; waterworks and gas maintenance workers; pest controllers and fumigators; and other repairers and servicers. They are employed by companies specializing in specific product installation and service; water filtration and distribution plants and waste treatment plants; gas distribution companies; pest control companies; and product specialty repair shops and service establishments; or they may be self-employed.

### 7441 Residential and commercial installers and servicers

Workers in this unit group install and service a wide variety of interior and exterior prefabricated products such as windows, doors, electrical appliances, water heaters, fences, play structures and septic and irrigation systems at residential, commercial or institutional properties. They are employed by companies specializing in specific product installation and service.

*Illustrative example(s)*

- aluminum window installer
- eavestrough installer
- electric appliance installer
- exterior cladder
- fence erector
- hot tub installer
- irrigation technician - installation and maintenance
- kitchen cupboard and vanity installer
- recreation structure erector
- siding installer
- sign installer
- swimming pool installer
- water conditioner servicer
- water heater servicer
- Window Film Installer
- window installer

*Exclusion(s)*

- Appliance servicers and repairers (see 7332 Appliance servicers and repairers)
- Central air conditioner installers (see 7313 Heating, refrigeration and air conditioning mechanics)
- Steamfitters, pipefitters and sprinkler system installers (see 7252 Steamfitters, pipefitters and sprinkler system installers)
- Supervisors of workers in this unit group (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Installers and servicers in this unit group perform some or all of the following duties:

- Read blueprints or work order specifications to determine layout and installation procedures
- Measure and mark guidelines to be used for installations
- Install, repair and service interior prefabricated products such as doors, windows, kitchen cupboards, bathroom vanities, water heaters and household appliances using hand and power tools
- Install, repair and service exterior prefabricated products such as siding, shutters, awnings, fencing, decks, septic and irrigation systems, signs and play structures using hand and power tools.

*Employment requirements*

- Commercial divers may require military or police diving experience.
- Commercial divers require certification of competency and a diving medical examination from an approved hyperbaric physician.
- Commercial divers usually require a provincial blaster's licence for the setting and detonation of explosives.

*Additional information*

- There is some mobility among the various types of installers and servicers in this unit group.

### 7442 Waterworks and gas maintenance workers

Waterworks maintenance workers maintain and repair waterworks equipment and facilities. They are employed in water filtration and distribution plants and waste treatment plants. Gas maintenance workers check and perform routine maintenance and minor repairs to exterior and underground gas mains and distribution lines. They are employed by gas distribution companies.

*Illustrative example(s)*

- gas leak locator
- gas maintenance worker
- gas utility operator

- pipeline maintenance worker
- pipeline patrolman/woman
- utility plant maintenance worker
- waterworks maintenance worker

*Exclusion(s)*

- Gas fitters (see 7253 Gas fitters)
- Supervisors of waterworks and gas maintenance workers (see 9212 Supervisors, petroleum, gas and chemical processing and utilities)
- Water and waste treatment plant operators (see 9243 Water and waste treatment plant operators)

*Main duties*

Waterworks maintenance workers perform some or all of the following duties:

- Check, clean and lubricate waterworks equipment, such as pumping equipment, chlorination equipment and compressors
- Adjust and repair waterworks equipment under the direction of qualified tradesperson
- Search and locate reported water leaks and repair water-mains, valves or outlets
- Install water meters using hand and power tools.

Gas maintenance workers perform some or all of the following duties:

- Check and lubricate gas pipeline valves
- Conduct routine survey of gas mains and distribution lines to detect and locate escaping gas using gas detecting devices
- Investigate reports of gas leaks to determine the exact location and extent of leaks
- Dig ground to expose gas lines and repair damaged pipes
- Keep record of work performed and location and condition of pipelines
- Provide information on underground gas distribution lines and observe excavation work to ensure that underground gas facilities are protected.

*Employment requirements*

- A driver's licence may be required.
- Completion of secondary school may be required.
- On-the-job training and several months of related installing, repairing or servicing experience are usually required.
- Some secondary school education is usually required.

*Additional information*

- Mobility between jobs in this unit group normally occurs within the same area of work, such as within waste water treatment plants, within water filtration and distribution plants or within gas distribution plants.
- Progression to supervisory positions is possible with experience.

## 7444 Pest controllers and fumigators

Pest controllers and fumigators inspect buildings and outside areas for pest infestation and spray chemical treatments to kill noxious and destructive insects, rodents and other pests or set cage traps to capture and remove animals. They are employed by pest control companies, or they may be self-employed.

*Illustrative example(s)*

- animal control trapper
- pest control operator
- pest control service representative
- pest control technician
- pest controller
- pest exterminator
- pest fumigator

*Exclusion(s)*

- Supervisors of pest controllers and fumigators (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Pest controllers and fumigators perform some or all of the following duties:

- Inspect buildings and outside areas at regular intervals or at specific request of property owner to detect signs of infestation
- Determine type of treatment required and provide estimate of costs to clients
- Prepare and spray chemical mixture on infested areas using mechanical or electric sprayer to kill insects, rodents and other pests
- Fumigate households
- Place and set traps to capture and remove animals, such as skunks or raccoons
- Install animal control barriers such as needle strips, netting and other devices to keep animals off property
- Clean out areas that harbour pests using rakes, shovels, brooms or mops
- Advise clients on how to prevent pest infestation.

*Employment requirements*

- Drinking water certification is required in Quebec and Ontario for waterworks maintenance workers.
- On-the-job training is provided.
- Several years of experience as a labourer in the same company may be required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 7445 Other repairers and servicers

This unit group includes workers, not elsewhere classified, who repair and service a wide variety of products, such as cameras, scales, musical instruments, coin machines, vending machines, sporting goods and other miscellaneous products and equipment. They are employed by product specialty repair shops and service establishments.

*Illustrative example(s)*

- bicycle repairer
- camera repairer
- meter repairer
- piano repairer
- scale repairer
- sewing machine servicer - domestic
- sporting goods repairer
- vending machine repairer

*Exclusion(s)*

- Locksmiths (see 7384 Other trades and related occupations, n.e.c.)
- Supervisors of workers in this unit group (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)

*Main duties*

Repairers and servicers in this unit group perform some or all of the following duties:

- Inspect products to determine the requirement for repair
- Repair or replace defective or worn out parts and components using hand, power or specially designed tools
- Test and adjust repaired products for proper functioning
- Perform routine maintenance
- May calibrate products using hand tools.

*Employment requirements*

- Completion of courses in pest control or extermination or several months of on-the-job training are usually required.
- Completion of secondary school is usually required.

*Additional information*

- Progression to supervisory positions is possible with experience.
- Some mobility may occur among workers in this unit group.

## 745 Longshore workers and material handlers

This minor group includes longshore workers and material handlers. They are employed by marine cargo handling companies, shipping agencies and shipping lines; transportation, storage and moving companies; and a variety of manufacturing and processing companies and retail and wholesale warehouses.

### 7451 Longshore workers

Longshore workers transfer cargo throughout dock area and onto and from ships and other vessels. They are employed by marine cargo handling companies, shipping agencies and shipping lines.

*Illustrative example(s)*

- dockworker
- longshore worker
- longshoreman/woman
- ship loader operator
- stevedore
- tanker loader

*Exclusion(s)*

- Longshore crane operators (see 7371 Crane operators)
- Material handlers (see 7452 Material handlers)
- Supervisors of longshore workers (see 7302 Contractors and supervisors, heavy equipment operator crews)

*Main duties*

Longshore workers perform some or all of the following duties:

- Operate industrial trucks, tractors and other mobile equipment to transfer cargo, such as containers, crated items, automobiles and pallet-mounted machinery, around dock to within range of cranes and hoists
- Operate winches or other hoisting devices to load and unload cargo onto and from ships and other vessels
- Operate mechanical towers to load vessels with materials such as coal and ore
- Operate equipment to transfer bulk materials, such as grain, to hold of vessels
- Connect hoses and operate equipment to transfer liquid materials into storage tanks on vessels
- Perform other activities such as lashing and shoring cargo aboard ships, opening and closing hatches, cleaning holds of ships and rigging cargo.

*Employment requirements*

- Provincial pesticide applicator licence is required in all provinces.
- Some secondary school education is usually required.

*Additional information*

- Progression to foreman/woman or supervisor of longshore workers is possible with experience.

## 7452 Material handlers

This unit group includes workers who handle, move, load and unload materials by hand or using a variety of material handling equipment. They are employed by transportation, storage and moving companies, and by a variety of manufacturing and processing companies and retail and wholesale warehouses.

*Illustrative example(s)*

- bin filler
- coal handler
- conveyor console operator
- forklift truck operator
- freight handler (except air transport)
- furniture mover
- lumber piler - building supplies
- material handler
- railway car loader
- stockpiler
- storage worker - material handling
- truck loader
- warehouseman/woman

*Exclusion(s)*

- Freight attendants (see 7534 Air transport ramp attendants)
- Heavy equipment operators (except crane) (see 7521 Heavy equipment operators (except crane))
- Longshore workers (see 7451 Longshore workers)
- Mover helpers (see 7622 Railway and motor transport labourers)
- Storekeepers and partspersons (see 1522 Storekeepers and partspersons)
- Supervisors of material handlers (see 7302 Contractors and supervisors, heavy equipment operator crews)
- Warehouse supervisors (see 1215 Supervisors, supply chain, tracking and scheduling co-ordination occupations)

*Main duties*

Material handlers (manual) perform some or all of the following duties:

- Load, unload and move products and materials by hand or using basic material handling equipment
- Move household appliances and furniture onto and off moving trucks or vans
- Perform other material handling activities such as counting, weighing, sorting, packing and unpacking.

Material handlers (equipment operators) perform some or all of the following duties:

- Operate winches and other loading devices to load and unload materials onto and off trucks, railway cars and loading docks of warehouses and industrial establishments
- Operate industrial trucks, tractors, loaders and other equipment to transport materials to and from transportation vehicles and loading docks and to store and retrieve materials in warehouses
- Connect hoses or pipes and operate equipment to load and unload liquid petroleum, chemical or other products into or from tank cars, tank trucks or storage tanks
- Operate equipment to dump materials such as coal, ore and grain into or to remove materials from railway cars, trucks or other vehicles
- Operate conveyors and equipment to transfer grain or other materials from transportation vehicles to elevators, bins or other storage areas
- May perform other activities, such as opening containers and crates, filling warehouse orders, assisting in taking inventory and weighing and checking materials.

*Employment requirements*

- Completion of college or other courses relevant to a particular equipment or product repair or Completion of several months of on-the-job training is usually required.
- Some secondary school education may be required.

## 75 Transport and heavy equipment operation and related maintenance occupations

This major group comprises occupations in transport and heavy equipment operation and related maintenance which usually require completion of secondary school and a licence or certification. It includes motor vehicle and transit drivers, heavy equipment operators, other transport equipment operators and related maintenance workers.

### 751 Motor vehicle and transit drivers

This minor group includes transport truck drivers; bus drivers, subway operators and other transit operators; taxi and limousine drivers and chauffeurs; and delivery and courier serice drivers. They are employed by transportation, manufacturing, distribution and moving companies and trucking employment service agencies; urban transit systems, school boards and transportation authorities and private transportation companies; taxi and other transportation service companies; businesses, governments and other organizations and private individuals and families; dairies, drug stores, newspaper distributors, take-out food establishments, dry cleaners, mobile caterers, courier and messenger service companies; and many other establishments; or they may be self-employed.

### 7511 Transport truck drivers

Transport truck drivers operate heavy trucks to transport goods and materials over urban, interurban, provincial and international routes. They are employed by transportation, manufacturing, distribution and moving companies, and trucking employment service agencies, or they may be self-employed. This unit group also includes drivers of special purpose trucks and shunters who move trailers to and from loading docks within trucking yards or lots.

*Illustrative example(s)*

- bulk goods truck driver
- dump truck driver
- flatbed truck driver
- heavy truck driver
- logging truck driver
- long haul truck driver
- moving van driver
- shunt truck driver
- tow truck driver
- tractor-trailer truck driver
- transport driver
- truck driver

*Exclusion(s)*

- Drivers of light trucks (see 7514 Delivery and courier service drivers)
- Snowplough and garbage truck drivers (see 7522 Public works maintenance equipment operators and related workers)
- Supervisors, motor transport and other ground transit operators (see 7305 Supervisors, motor transport and other ground transit operators)
- Truck dispatchers (see 1525 Dispatchers)
- Truck driver helpers (see 7622 Railway and motor transport labourers)
- Truck driver trainers (see 4021 College and other vocational instructors)

*Main duties*

Long-haul transport truck drivers perform some or all of the following duties:

- Operate and drive primarily straight trucks to transport goods and materials mainly on local routes and short interurban routes
- Plan trip logistics and obtain required documentation to transport goods
- Perform pre-trip, en route and post-trip inspection of vehicle systems, equipment and accessories such as tires, lights and turning signals, brakes and cold storage
- Ensure cargo is secured properly in accordance with safety requirements and follow safety procedures for transporting dangerous goods

- Obtain special permits and other documents required to transport cargo on international routes
- Record cargo information, hours of service, distance travelled and fuel consumption
- Administer bills of lading and manually or electronically maintain log books
- Communicate with dispatcher, other drivers and customers using communication devices and on-board computers
- May perform emergency roadside repairs
- May drive as part of a two-person team or convoy
- May transport hazardous products or dangerous goods.

Short-haul and local transport truck drivers perform some or all of the following duties:

- Operate and drive primarily straight trucks to transport goods and materials mainly on local routes and short inter-urban routes
- Perform pre-trip, en route and post-trip inspection and oversee all aspects of vehicle such as condition of equipment, and loading and unloading of cargo
- May drive special purpose trucks such as tow trucks, dump trucks, hydrovac trucks or cement mixing trucks.

*Employment requirements*

- A Class 1 or A licence is required to drive long combination vehicles.
- A Class 3 or D licence is required to drive straight-body trucks.
- Completion of an accredited driver training course of up to five months duration, through a vocational school or community college, may be required.
- Completion of secondary school is usually required.
- On-the-job training is provided.
- On-the-job-training is provided.
- Physical strength is required for manual material handlers who work with heavy materials.
- Some secondary school education may be required.

*Additional information*

- Progression to supervisory positions or to non-driving occupations, such as driver trainer, safety officer or truck dispatcher is possible with additional training or experience.

## 7512 Bus drivers, subway operators and other transit operators

This unit group includes workers who drive buses and operate streetcars, subway trains and light rail transit vehicles to transport passengers on established routes. Bus drivers are employed by urban transit systems, school boards or transportation authorities and private transportation companies. Streetcar, subway and light rail transit operators are employed by urban transit systems.

*Illustrative example(s)*

- bus driver
- bus operator
- light rail transit operator
- motor coach driver
- public passenger transit driver
- school bus driver
- sightseeing tour driver
- streetcar operator
- subway train operator
- transit operator - transportation

*Exclusion(s)*

- Supervisors and inspectors of bus drivers, subway operators and other transit operators (see 7305 Supervisors, motor transport and other ground transit operators)

*Main duties*

Bus drivers and streetcar operators perform some or all of the following duties:

- Drive buses or streetcars to transport passengers along established routes to local destinations
- Drive buses to transport passengers and goods to intercity or long distance destinations
- Drive sightseeing tour buses to transport passengers locally or over long distances
- Drive buses equipped for wheelchair accessibility, and aid passengers in boarding
- Provide passengers with information on fares, schedules and stops
- Collect fares, issue and validate transfers, check bus passes and record transactions
- Conduct pre-trip and post-trip inspections of vehicle
- Communicate with passengers, dispatchers or other drivers using two-way radio systems
- Report delays, mechanical problems and accidents
- May provide information on points of interest during sightseeing tours
- May load and unload passengers' luggage and express freight.

School bus drivers perform some or all of the following duties:

- Drive school buses to transport children between school and home or on excursions
- Ensure children's safety when boarding and leaving buses and crossing street while bus is stopped
- Maintain control of student activities during travel to prevent distractions or behaviours that could compromise safety
- May transport adults outside of school hours on chartered trips.

Subway train and light rail transit operators perform some or all of the following duties:

- Operate subway or rail transit vehicles as part of two-person crew
- Observe signals at crossings and arrival and departure points
- Operate controls to open and close transit vehicle doors
- Report delays, malfunctions and accidents to control unit
- Ensure passenger safety and welfare in emergencies, and direct passengers during evacuation procedures.

*Employment requirements*

- A minimum of one year of safe driving experience is required.
- Additional licensing endorsement or certification may be required to drive articulated trucks.
- Air brake endorsement (Z) is required for drivers who operate vehicles equipped with air brakes.
- Completion of secondary school is usually required.
- Transportation of dangerous goods (TDG) certification is required for drivers who transport hazardous products or dangerous goods.
- Up to three months of on-the-job training, including classroom instruction, is usually provided for all occupations in this unit group.

*Additional information*

- Progression to transit supervisory positions, inspector or training instructor positions is possible with experience.

## 7513 Taxi and limousine drivers and chauffeurs

Taxi and limousine drivers drive automobiles and limousines to transport passengers. Chauffeurs drive automobiles and limousines to transport personnel and visitors of businesses, government or other organizations or members of private households. Taxi and limousine drivers are employed by taxi and other transportation service companies, or they may be self-employed. Chauffeurs are employed by businesses, government and other organizations, or private individuals or families.

*Illustrative example(s)*

- airport limousine driver
- company chauffeur
- limousine driver
- private chauffeur
- taxi driver

*Exclusion(s)*

- Supervisors, motor transport and other ground transit operators (see 7305 Supervisors, motor transport and other ground transit operators)
- Taxi dispatchers (see 1525 Dispatchers)

*Main duties*

Taxi and limousine drivers perform some or all of the following duties:

- Pick up passengers and drive them to destinations in taxicabs or limousines
- Help passengers with luggage and with boarding and exiting vehicles and assist passengers with special needs
- Collect flat-rate or taximeter fares
- Maintain travel logs and record cash and credit transactions
- Maintain contact with taxi dispatch unit
- Clean and make minor repairs to vehicle or take vehicle for servicing
- May provide pick up and delivery services on request.

Chauffeurs perform some or all of the following duties:

- Pick up or meet employer according to request, appointment or schedule
- Drive employer to destinations in automobile or limousine
- Perform business and personal errands for employer such as delivering and picking up mail, business documents and parcels
- Clean and make minor repairs to vehicle or take vehicle for servicing.

*Employment requirements*

- A Class G driver's licence is required in Ontario, and a Class 4 driver's licence is required in all other provinces and the territories.
- A minimum of one year of safe driving experience is usually required.
- An air brakes endorsement and first aid certificate may be required.
- Bus drivers require a Class B, C, E or F driver's licence in Ontario, and a Class 2 driver's licence is required in all other provinces and the territories.
- Experience as a public transit bus driver is usually required for subway and light rail transit operators.
- Some secondary school education is usually required.

*Additional information*

- Mobility from taxi or limousine driver to chauffeur is possible with experience.

## 7514 Delivery and courier service drivers

Delivery and courier service drivers drive automobiles, vans and light trucks to pick up and deliver various products. They are employed by dairies, drug stores, newspaper distributors, take-out food establishments, dry cleaners, mobile caterers, courier and messenger service companies and many other establishments, or they may be self-employed.

*Illustrative example(s)*

- bread deliverer
- canteen driver
- courier service driver
- delivery driver
- driver salesperson
- dry cleaning driver
- mail service courier
- newspaper delivery driver
- pizza delivery driver
- vending machine driver-supplier

*Exclusion(s)*

- Couriers, messengers and door-to-door distributors (see 1513 Couriers, messengers and door-to-door distributors)
- Delivery truck helpers (see 7622 Railway and motor transport labourers)
- Dispatchers (see 1525 Dispatchers)
- Drivers of heavy trucks (see 7511 Transport truck drivers)
- Garbage truck drivers (see 7522 Public works maintenance equipment operators and related workers)
- Supervisors of delivery drivers (see 7305 Supervisors, motor transport and other ground transit operators)

*Main duties*

Delivery and courier service drivers perform some or all of the following duties:

- Operate and drive automobiles, vans and light trucks to pick up and deliver various products, such as fast food, newspapers, magazines, bakery and dairy products, and items such as dry cleaning, envelopes, packages and parcels
- Perform pre-trip and post-trip inspection of vehicle
- Plan delivery travel schedules and service routes
- Load and unload cargo, goods or merchandise
- Provide customer service by selling products, delivering over established routes and accepting or making payments for goods
- Record information on pick-ups and deliveries, vehicle mileage and fuel costs and report any incidents or problems encountered
- May scan and sort freight or cargo for delivery
- May assemble, install or set-up delivered goods or merchandise
- May communicate with central dispatch using mobile communications equipment.

*Employment requirements*

- A driver's licence appropriate to the class of vehicle being driven is required.
- Completion of secondary school is usually required.
- First aid certification may be required.
- Taxi and limousine drivers require good knowledge of the geographical area to be covered and may have to pass written street/building location and safety examinations.
- Taxi drivers usually require a municipal permit.

*Additional information*

- Progression to supervisory positions or to non-driving occupations, such as driver trainer or dispatcher is possible with additional training or experience.

## 752 Heavy equipment operators

This minor group includes heavy equipment operators (except crane) and public works maintenance equipment operators and related workers. They are employed by construction companies, heavy equipment contractors and pipeline, logging, cargo-handling and other companies; municipal, provincial and federal public works departments and private contractors under contract with government public works departments; and private companies involved in the collection of refuse and recyclable materials.

### 7521 Heavy equipment operators (except crane)

Heavy equipment operators operate heavy equipment used in the construction and maintenance of roads, bridges, airports, gas and oil pipelines, tunnels, buildings and other structures; in surface mining and quarrying activities; and in material handling work. They are employed by construction companies, heavy equipment contractors, public works departments and pipeline, logging, cargo-handling and other companies.

*Inclusion(s)*

- marine railway operator

*Illustrative example(s)*

- backhoe operator
- bulldozer operator
- excavator operator
- gradall operator
- grader operator
- heavy equipment operator
- heavy equipment operator apprentice
- loader operator - construction
- side boom tractor operator
- surface mining equipment operator

*Exclusion(s)*

- Contractors and supervisors, heavy equipment operator crews (see 7302 Contractors and supervisors, heavy equipment operator crews)
- Crane operators (see 7371 Crane operators)
- Forklift and industrial truck operators (see 7452 Material handlers)
- Logging machinery operators (see 8241 Logging machinery operators)
- Underground production and development miners (see 8231 Underground production and development miners)

*Main duties*

Heavy equipment operators perform some or all of the following duties:

- Operate heavy equipment such as backhoes, bulldozers, loaders and graders to excavate, move, load and grade earth, rock, gravel or other materials during construction and related activities
- Operate bulldozers or other heavy equipment to clear brush and stumps prior to logging activities and to build roads at logging and surface mining sites
- Operate heavy equipment with pile driver head to drive piling into earth to provide support for buildings, bridges or other structures
- Operate heavy dredging equipment to deepen waterways or reclaim earth fill
- Operate heavy paving and surfacing equipment to lay, spread or compact concrete, asphalt and other surface materials during highway and road construction
- Operate power shovels to excavate rock, ore or other materials from open-pit mines, strip mines, quarries or construction pits
- Operate heavy equipment to move, load and unload cargo
- Conduct pre-operational checks on equipment and clean, lubricate and refill equipment.

*Employment requirements*

- Completion of a one- to two-year apprenticeship program or Some high school, college or industry courses in heavy equipment operating combined with on-the-job training are required.
- Eligibility for bonding and transportation of dangerous goods (TGD) certification may be required for delivery and courier drivers.
- One year of safe driving experience is usually required.
- On-the-job training is provided.
- Some secondary school education is required.

*Additional information*

- Progression to supervisory positions is possible with experience.
- The Red Seal endorsement allows for interprovincial mobility.

## 7522 Public works maintenance equipment operators and related workers

This unit group includes workers who operate vehicles and equipment to maintain streets, highways and sewer systems and operate trucks to collect garbage and recyclable materials. This group also includes workers who clear vegetation close to power lines, workers who inspect the condition of utility poles and workers who locate underground utility lines and pipes. They are employed by municipal, provincial and federal public works departments, private contractors under contract with government public works departments and private companies involved in the collection of refuse and recyclable materials.

*Illustrative example(s)*

- garbage truck driver
- municipal maintenance equipment operator
- power pole inspector
- public works maintenance equipment operator
- salt truck operator
- sand spreader operator
- sewer-flushing truck operator - public works
- snow removal equipment operator - public works
- street flusher operator
- street sweeper operator
- utility arborist
- utility locator

*Exclusion(s)*

- Heavy equipment operators (except crane) (see 7521 Heavy equipment operators (except crane))
- Landscaping and grounds maintenance labourers (see 8612 Landscaping and grounds maintenance labourers)
- Public works and maintenance labourers (see 7621 Public works and maintenance labourers)
- Supervisors of public works maintenance equipment operators (see 7302 Contractors and supervisors, heavy equipment operator crews)
- Transport truck drivers (see 7511 Transport truck drivers)

*Main duties*

Public works maintenance equipment operators and related workers perform some or all of the following duties:

- Operate garbage trucks to remove garbage and other refuse and dump loads at designated sites
- Operate street cleaning equipment such as street sweepers or other vehicles equipped with rotating brushes to remove sand, litter and trash
- Operate snowploughs or trucks fitted with plough blades to remove snow from streets, highways, parking lots and similar areas
- Operate sewer maintenance equipment such as rodders and sewer jet cleaners to maintain and repair sewer systems
- Operate trucks equipped with apparatuses for spreading sand, salt or abrasives on roadways
- Operate chainsaws and other clearing equipment to fell trees and cut back vegetation close to power lines
- Operate equipment and hand tools to inspect and test utility poles for decay and deterioration
- Operate equipment and instruments to locate underground utility lines and pipes
- Check, lubricate, refuel and clean equipment and report any malfunctions to supervisor.

*Employment requirements*

- Experience as a public works labourer is usually required.
- Internal company certification may be required by some employers.
- Red Seal endorsement is also available to qualified heavy equipment operators upon successful completion of the interprovincial Red Seal examination.
- Some secondary school may be required.
- Trade certification for heavy equipment operator (dozer, excavator, tractor-loader-backhoe) is compulsory in Quebec and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island and Ontario.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 753 Other transport equipment operators and related maintenance workers

This minor group includes railway yard and track maintenance workers; water transport deck and engine room crew; boat and cable ferry operators and related occupations; air transport ramp attendants; and other automotive mechanical installers and servicers. They are employed by railway and marine transport companies; the federal government; cable ferry companies, ferry terminals, marine companies and canal, port and harbour authorities; airline and air services companies; automobile and truck service and repair shops; service departments of industrial establishments; and construction, mining and logging companies; or they may be self-employed.

### 7531 Railway yard and track maintenance workers

Railway yard workers regulate yard traffic, couple and uncouple trains and perform related yard activities. Railway track maintenance workers operate machines and equipment to lay, maintain and repair railway tracks. They are employed by railway transport companies.

*Inclusion(s)*
- motor vehicle operator - pole yard

*Illustrative example(s)*
- ballast regulator operator - railway
- car controller - railway
- control tower operator - railway
- machine operator - railway
- rail saw operator
- railway equipment operator
- railway track patroller
- railway trackman/woman
- section worker - railway
- signal tower operator - railway
- spike machine operator - railway
- switch tender - railway yard
- tie tamper operator - railway
- towerman/woman - railway transport
- yard coupler - railway
- yard worker - railway

*Exclusion(s)*
- Contractors and supervisors, heavy equipment operator crews (see 7302 Contractors and supervisors, heavy equipment operator crews)
- Railway and motor transport labourers (see 7622 Railway and motor transport labourers)
- Railway conductors and brakemen/women (see 7362 Railway conductors and brakemen/women)
- Supervisors of railway yard and track maintenance workers (see 7304 Supervisors, railway transport operations)

*Main duties*

Railway yard and track maintenance workers perform some or all of the following duties:
- Operate control panel switches from railway yard tower to set traffic signals and to activate train switches that regulate railway traffic in railway yards
- Operate car retarders, turntables and track switches to align locomotives and cars as required for coupling, uncoupling or servicing
- Operate machines and equipment to lay, maintain and repair railway tracks, align tracks, transfer, spread, level and tamp ballast around ties and rails and to clear snow from tracks
- Switch cars according to instructions which indicate the location, disposition and number of cars
- Lubricate moving parts of railway cars and locomotives
- Clean and make minor repairs to machines and equipment
- Patrol assigned track sections to identify and report damaged or broken track

- Perform other track maintenance duties as directed.

*Employment requirements*
- A driver's licence appropriate to a specific type of equipment may be required.
- On-the-job training is provided.
- Some secondary school education is usually required.
- Trade certification for utility arborists is available, but voluntary, in Ontario and British Columbia.

*Additional information*
- Progression to a position such as brakeman is possible with experience.

### 7532 Water transport deck and engine room crew

Workers in this unit group stand watch, operate and maintain deck equipment, perform other deck and bridge duties and assist ship engineer officers to operate, maintain and repair engines, machinery and auxiliary equipment aboard ships or self-propelled vessels. They are employed by marine transportation companies and federal government departments.

*Illustrative example(s)*
- able seaman/woman (except armed forces)
- boatswain - water transport
- deckhand
- engine room crew member - ship
- helmsman/woman - water transport
- marine engine oiler
- marine engineering mechanic
- ship stoker
- ship tunnel operator

*Exclusion(s)*
- Deck officers, water transport (see 2273 Deck officers, water transport)
- Engineer officers, water transport (see 2274 Engineer officers, water transport)
- Fishing vessel deckhands (see 8441 Fishing vessel deckhands)

*Main duties*

Workers in this unit group perform some or all of the following duties:
- Stand watch and steer ship or self-propelled vessel under the direction of the officer on watch
- Operate, maintain and repair deck equipment such as winches, cranes, derricks and hawsers
- Assist ship engineer officers in performing routine maintenance work and repair to ship's engine, machinery and auxiliary equipment
- Monitor engine, machinery and equipment indicators, record variables and report abnormalities to ship engineer officer on watch
- Lubricate moving parts of engines, machinery and auxiliary equipment
- Operate and maintain off-loading liquid pumps and valves
- Clean engine parts and keep engine room clean
- Clean, chip and paint deck surfaces
- Handle mooring lines, and splice and repair ropes, wire cables and cordage.

*Employment requirements*
- Experience as a railway labourer is required.
- On the job training is provided

*Additional information*
- Progression to deck or ship engineer officer positions is possible with experience, additional training and deck officer certification by Transport Canada.
- Senior positions in this unit group, such as able seaman/woman, require experience.

- Training and testing for various endorsements and certification, including the Marine Emergency Duty (MED) certificate, occur following employment as a deck crew member.

## 7533 Boat and cable ferry operators and related occupations

This unit group includes workers who operate lock gates, bridges and similar equipment along canal systems and workers who operate cable ferries and ferry terminals. This group also includes boat operators, and owner-operators, who operate small motorboats or watercraft to transport passengers or freight. Workers in this group are employed by the federal government, cable ferry companies, ferry terminals, marine companies and canal, port or harbour authorities. Owner-operators of small boats are self-employed.

*Illustrative example(s)*

- bridgemaster
- cable ferry operator
- canal lock operator
- charter boat operator
- ferry terminal worker
- launch master
- linesman/woman - canal lock system
- loading bridge operator
- lockmaster
- motorboat operator
- scow captain
- sightseeing boat operator
- small craft operator
- water taxi operator

*Exclusion(s)*

- Deck officers, water transport (see 2273 Deck officers, water transport)
- Water transport deck and engine room crew (see 7532 Water transport deck and engine room crew)

*Main duties*

Lock equipment operators perform some or all of the following duties:

- Operate telecommunication equipment or use portable loudspeakers to direct movements of vessels in lock area
- Operate controls to open or close lock gates
- Operate controls to raise, lower or turn bridges
- Observe progress of vessels passing through locks.

Cable ferry operators perform some or all of the following duties:

- Signal passengers and motor vehicles to embark and disembark
- Operate cable ferry across narrow waterway
- Perform routine maintenance and repairs to engine, cables and winches.

Ferry terminal workers perform some or all of the following duties:

- Operate controls to adjust landing bridge, position or remove gangplank, open or close doors and gates, and secure or remove docking devices
- Signal passengers and motor vehicles to embark and disembark
- May collect tickets or fares from passengers.

Boat operators perform some or all of the following duties:

- Operate motorboats, launches, small ferry boats and other similar vessels to transport passengers or freight
- Maintain boats and equipment on board, such as engines, winches, derricks, fire extinguishers and life preservers
- May perform other duties, such as checking for oil spills or other pollutants around ports and harbours, patrolling beaches and measuring depth of water.

*Employment requirements*

- On-the-job training is provided.
- Railway yard workers require a Canadian Rail Operating Rules certificate.
- Some secondary school education is required.

*Additional information*

- Mobility between boat operators in this unit group is possible.
- Progression from boat operator positions to deck officer positions is possible with additional training, experience and certification.
- There is little or no mobility among lock equipment operators, cable ferry operators and ferry terminal workers.

## 7534 Air transport ramp attendants

Air transport ramp attendants operate ramp-servicing vehicles and equipment, handle cargo and baggage and perform other ground support duties at airports. They are employed by airline and air services companies and the federal government.

*Illustrative example(s)*

- aircraft groomer
- airport ramp attendant
- cargo attendant - air transport
- ramp agent - air transport
- ramp attendant - air transport
- station attendant - air transport

*Exclusion(s)*

- Airline load planners (see 6523 Airline ticket and service agents)
- Material handlers (see 7452 Material handlers)

*Main duties*

Air transport ramp attendants perform some or all of the following duties:

- Drive and operate ramp-servicing vehicles and equipment such as towing tractors, food service trucks, de-icer sprayers and lavatory servicing trucks
- Position passenger loading stairs and operate aircraft cargo doors
- Marshal or tow aircrafts to gate positions for passenger boarding and deplaning and for loading and unloading of cargo
- Sort and load cargo and passenger baggage according to instructions forwarded by load planner to achieve proper balance
- Unload, sort and route cargo and baggage
- Transport freight between aircraft and airport warehouse
- Clean and prepare aircraft interior for passengers and wash aircraft exterior.

*Employment requirements*

- Master of a Small Craft or Master of a Small Passenger Craft certificate, issued by Transport Canada, is required for boat operators.
- On-the-job training is provided.
- Some secondary school education is usually required.

*Additional information*

- There is mobility among jobs in this unit group.

## 7535 Other automotive mechanical installers and servicers

Workers in this group install replacement automotive mechanical parts such as mufflers, exhaust pipes, shock absorbers, springs and radiators and perform routine maintenance service such as oil changes, lubrication and tire repairs on automobiles, trucks and heavy equipment. They are employed by automobile and truck service and repair shops, service departments of industrial establishments and construction, mining and logging companies.

*Illustrative example(s)*

- crane greaser
- heavy equipment servicer
- muffler installer
- radiator installer - auto repair service
- shock absorber installer
- spring installer
- tire repairer

*Exclusion(s)*

- Automotive service technicians, truck and bus mechanics and mechanical repairers (see 7321 Automotive service technicians, truck and bus mechanics and mechanical repairers)
- Heavy-duty equipment mechanics (see 7312 Heavy-duty equipment mechanics)
- Supervisors of workers in this unit group (see 7301 Contractors and supervisors, mechanic trades)

*Main duties*

Automotive mechanical installers and servicers in this unit group perform some or all of the following duties:

- Change engine oil and lubricate running gears or moving parts of automobiles, trucks and heavy equipment
- Grease booms, pulleys, buckets and other components of heavy equipment
- Replace oil, air and fuel filters on motor vehicles, trucks and heavy equipment
- Install replacement mufflers, exhaust pipes, shock absorbers or radiators on motor vehicles, trucks and heavy equipment
- Repair and balance tires
- Add or replace hydraulic and transmission fluids in motor vehicles, trucks and heavy equipment
- Assist mechanics and perform other duties as directed
- Drive automobile or service truck to location of construction, logging or other industrial sites to provide services.

*Employment requirements*

- Completion of secondary school is usually required.
- Experience operating baggage transporting equipment or warehouse experience may be required.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is some mobility among installers and servicers in this unit group.

## 76 Trades helpers, construction labourers and related occupations

This major group comprises trades helpers, construction labourers and related occupations with some experience or some secondary school, and may require certification. It includes trades helpers and labourers; and public works and other labourers not elsewhere classified.

## 761 Trades helpers and labourers

This minor group includes construction trades helpers and labourers, and other trades helpers and labourers. They are employed by construction companies; trade and labour contractors; surface mine and quarry operators; and a wide variety of manufacturing, utility and service companies.

## 7611 Construction trades helpers and labourers

Construction trades helpers and labourers assist skilled tradespersons and perform labouring activities at construction sites, in quarries and in surface mines. They are employed by construction companies, trade and labour contractors, and surface mine and quarry operators.

*Illustrative example(s)*

- asphalt spreader
- bricklayer helper
- carpenter helper
- concrete mixer helper
- concrete paving labourer
- construction helper
- construction labourer
- demolition worker
- driller helper - surface mining
- drywall sander
- excavation labourer
- flagman/woman
- glazier helper
- pipeline mandrel operator
- plumber helper
- roofer helper
- stabber - pipeline construction

*Exclusion(s)*

- Other trades helpers and labourers (see 7612 Other trades helpers and labourers)
- Public works and maintenance labourers (see 7621 Public works and maintenance labourers)

*Main duties*

Construction trades helpers and labourers perform some or all of the following duties:

- Load and unload construction materials, and move materials to work areas
- Erect and dismantle concrete forms, scaffolding, ramps, catwalks, shoring and barricades required at construction sites
- Mix, pour and spread materials such as concrete and asphalt
- Assist tradespersons such as carpenters, bricklayers, cement finishers, roofers and glaziers in construction activities
- Assist heavy equipment operators to secure special attachments to equipment, signal operators to guide them in moving equipment and provide assistance in other activities
- Assist in aligning pipes and perform related activities during oil and gas pipeline construction
- Assist in drilling and blasting rock at construction sites
- Assist miners in excavating and in setting up and operating various drills and other surface mining machinery
- Level earth to fine grade specifications using rake and shovel
- Assist in demolishing buildings using prying bars and other tools, and sort, clean and pile salvaged materials
- Remove rubble and other debris at construction sites using rakes, shovels, wheelbarrows and other equipment
- Operate pneumatic hammers, vibrators and tampers as directed
- Tend or feed machines or equipment used in construction such as mixers, compressors and pumps
- Clean up chemical spills and other contaminants, and remove asbestos and other hazardous materials
- Oil and grease hoists and similar equipment
- Direct traffic at or near construction sites
- Perform other activities at construction sites, as directed.

*Employment requirements*

- A driver's licence and a good driving record are usually required.
- Several months of on-the-job training are usually required.
- Some experience as a general construction labourer may be required for construction trade helpers.
- Some pipeline workers, such as stabbers, mandrel operators and pre-heater tenders, usually require one season of experience in oil and gas pipeline construction.
- Some secondary school may be required.

*Additional information*

- Mobility is possible among workers in this unit group.
- The Red Seal endorsement allows for interprovincial mobility.

## 7612 Other trades helpers and labourers

This unit group includes trade helpers and labourers, not elsewhere classified, who assist skilled tradespersons and perform labouring activities in the installation, maintenance and repair of industrial machinery, refrigeration, heating and air conditioning equipment, in the maintenance and repair of transportation and heavy equipment, in the installation and repair of telecommunication and power cables and in other repair and service work settings. They are employed by a wide variety of manufacturing, utility and service companies.

*Illustrative example(s)*

- aerial spraying assistant
- aircraft mechanic helper
- cable installer helper
- diesel mechanic helper
- ground worker - telecommunications
- mechanic's helper - automotive
- millwright helper
- refrigeration mechanic helper
- splicer helper - telecommunications
- surveyor helper

*Exclusion(s)*

- Construction trades helpers and labourers (see 7611 Construction trades helpers and labourers)

*Main duties*

Trade helpers and labourers in this unit group perform some or all of the following duties:

- Move tools, equipment and other materials to and from work areas
- Assist in splicing overhead and underground communications and electric power transmission cables
- Assist in repairing, maintaining and installing industrial machinery and equipment
- Assist in repairing, maintaining and installing refrigeration, heating and air conditioning equipment
- Assist in repairing, maintaining and installing elevators
- Assist in repairing and maintaining stationary electric power generating and distribution equipment
- Assist in mechanical, electrical and body repairs of aircraft, railway cars, automobiles, trucks, buses, heavy equipment and motorcycles
- Assist in repairing electrical appliances, small engines or other similar equipment
- Mix fertilizers, herbicides and pesticides and load mixture into airplane for aerial spraying
- Assist in land surveying activities, such as holding or moving stakes and rods, clearing brush and debris from line of survey and transporting surveying tools to work area
- Perform other labouring and elemental tasks as required.

*Employment requirements*

- Flagmen/women may require a traffic control certificate.
- Trade certification for construction craft worker is available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, Quebec, Ontario, Manitoba, Saskatchewan, and Alberta.

*Additional information*

- There is little or no mobility between occupations in this unit group.

## 762 Public works and other labourers, n.e.c.

This minor group includes public works and maintenance labourers, and railway and motor transport labourers. They are employed by public works departments in all levels of government; private contractors under contract to governments; and railway and motor transport companies.

### 7621 Public works and maintenance labourers

Public works and maintenance labourers perform a variety of labouring activities to maintain sidewalks, streets, roads and similar areas. They are employed by public works departments in all levels of government or by private contractors under contract to governments.

*Illustrative example(s)*

- helper - garbage collection
- municipal labourer
- parking meter collector
- public works labourer
- road maintenance worker
- sewer maintenance worker
- sidewalk cleaner

*Exclusion(s)*

- Construction labourers (see 7611 Construction trades helpers and labourers)
- Landscaping and grounds maintenance labourers (see 8612 Landscaping and grounds maintenance labourers)
- Park maintenance labourers (see 8612 Landscaping and grounds maintenance labourers)
- Public works maintenance equipment operators and related workers (see 7522 Public works maintenance equipment operators and related workers)
- Railway and motor transport labourers (see 7622 Railway and motor transport labourers)
- Supervisors of public works maintenance labourers and workers (see 7302 Contractors and supervisors, heavy equipment operator crews)

*Main duties*

Public works and maintenance labourers perform some or all of the following duties:

- Clean and maintain sidewalks, streets, roads and public grounds of municipality and other areas, working as member of crew
- Sweep debris and remove snow from streets, sidewalks, building grounds and other areas, and load snow and debris into carts or trucks
- Shovel cement and other materials into cement mixers, spread concrete and asphalt on road surfaces using shovels, rakes and hand tampers, and perform other activities to assist in maintenance and repair of roads
- Spread sand or salt on sidewalks for snow and ice control
- Dig ditches and trenches using shovels and other hand tools
- Operate jackhammers and drills to break up pavement
- Load and unload trucks with supplies and equipment
- Collect money from coin boxes of parking meters along established route
- Collect and load refuse on garbage trucks
- Assist equipment operators to secure attachments to equipment or trucks
- Assist in routine maintenance and repair of equipment
- Assist skilled tradespersons such as carpenters, plumbers and mechanics
- May operate mobile sidewalk-cleaning equipment.

*Employment requirements*

- Red Seal endorsement is also available to qualified construction craft workers upon successful completion of the interprovincial Red Seal examination.

*Additional information*

- Progression to supervisory positions or to public works maintenance equipment operator positions is possible with experience.

### 7622 Railway and motor transport labourers

Railway and motor transport labourers perform a variety of tasks to assist track maintenance workers and railway yard workers, or motor transport operators. They are employed by railway transport companies and motor transport companies.

*Illustrative example(s)*

- car checker - railway
- delivery truck helper
- furniture mover helper
- mover helper
- railway labourer
- signal gang helper
- swamper - truck transport
- truck driver helper

*Exclusion(s)*

- Material handlers (see 7452 Material handlers)
- Rail car oilers and greasers (see 7531 Railway yard and track maintenance workers)

*Main duties*

Railway labourers perform some or all of the following duties:

- Transport tools and equipment on push or hand car and perform other duties to assist railway track maintenance workers to lay, maintain and repair railway tracks
- Cut vegetation growth from railway tracks using scythes and mowers
- Check freight cars for physical damage and cleanliness.

Motor transport labourers perform some or all of the following duties:

- Assist truck and delivery drivers to load and unload vehicles
- Perform labouring duties in warehouses.

*Employment requirements*

- Some secondary school education may be required.

*Additional information*

- With experience, railway labourers may progress to railway track maintenance workers or railway yard workers.

## 8 Natural resources, agriculture and related production occupations

These occupations include supervisors and equipment operators in the natural resource-based sectors of mining, oil and gas production, forestry and logging, agriculture, horticulture and fishing. Most occupations in this category are industry specific and do not occur outside of the primary resources industries.

Occupations within this category generally require completion of college or vocational education programs. Some of these occupations, however, are characterized by on-the-job training and progression through experience.

## 82 Supervisors and technical occupations in natural resources, agriculture and related production

This major group comprises supervisors and technical occupations in natural resources, agriculture and related production, which usually require completion of secondary school and experience, and may require a college diploma, college or industry courses, a licence or certification. It includes logging and forestry supervisors; contractors and supervisors in mining, oil and gas; underground miners, oil and gas drillers and workers in related occupations; logging machinery operators; contractors and supervisors in agriculture, horticulture and related operations and services; and fishing vessel masters and fishermen/women.

### 821 Supervisors, logging and forestry

This minor group includes supervisors in logging and forestry. They are employed by logging companies, contractors and government agencies.

### 8211 Supervisors, logging and forestry

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in logging operations and silvicultural operations. They are employed by logging companies, contractors and government agencies.

*Illustrative example(s)*

- forest operations supervisor
- forestry crew supervisor
- hook tender - logging
- logging contractor
- logging foreman/woman
- production supervisor - logging
- silviculture supervisor
- woods foreman/woman

*Exclusion(s)*

- Chain saw and skidder operators (see 8421 Chain saw and skidder operators)
- Forestry technologists and technicians (see 2223 Forestry technologists and technicians)
- Logging and forestry managers (see 0811 Managers in natural resources production and fishing)
- Logging machinery operators (see 8241 Logging machinery operators)
- Silviculture and forestry workers (see 8422 Silviculture and forestry workers)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise and co-ordinate the activities of logging and forestry workers in woodland operations, often in several work locations over several square kilometres
- Oversee silvicultural activities such as scarification, planting and vegetation control
- Schedule work crews, equipment and transportation for several work locations
- Resolve work problems and recommend measures to improve work methods
- Instruct workers in safety, recognize unsafe work conditions and modify work procedures
- Ensure that government regulations are met
- Communicate with forestry technical, professional and management personnel regarding forest harvesting and forest management plans, procedures and schedules
- Prepare production and other reports
- Hire and train new workers.

*Employment requirements*

- Completion of a one- to three-year college program for forestry technologists or technicians may be required.
- Completion of secondary school is usually required.
- Formal company training and several months of on-the-job training are provided.

- On-the-job training is provided.
- Several weeks of on-the-job training are provided.
- Some secondary school education is usually required.

## 822 Contractors and supervisors, mining, oil and gas

This minor group includes supervisors in mining and quarrying; and contractors and supervisors in oil and gas drilling and services. They are employed by coal, metal and non-metallic mineral mines and quarries; drilling and well service contracting companies; and petroleum producing companies; or they may be self-employed.

### 8221 Supervisors, mining and quarrying

Supervisors in this unit group supervise and co-ordinate activities of workers engaged in underground and surface mining operations and quarries. They are employed by coal, metal and non-metallic mineral mines and quarries.

*Illustrative example(s)*

- fill foreman/woman - underground mining
- mine captain
- mine foreman/woman
- mine supervisor
- quarry supervisor
- surface mine supervisor
- track boss - underground mining
- underground mine foreman/woman

*Exclusion(s)*

- Drillers and blasters - surface mining, quarrying and construction (see 7372 Drillers and blasters - surface mining, quarrying and construction)
- Heavy equipment operators (except crane) (see 7521 Heavy equipment operators (except crane))
- Mine labourers (see 8614 Mine labourers)
- Mine managers (see 0811 Managers in natural resources production and fishing)
- Underground mine service and support workers (see 8411 Underground mine service and support workers)
- Underground production and development miners (see 8231 Underground production and development miners)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who extract coal, minerals and ore; operate underground conveyances; and perform other services in support of underground mining, or of heavy equipment operators, drillers, blasters and other workers in surface mining and quarrying
- Establish methods to meet work schedules and confer with managerial and technical personnel, other departments and contractors to resolve problems and co-ordinate activities
- Oversee the safety of the mining or quarrying operations
- Resolve work problems and recommend measures to improve productivity
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

*Employment requirements*

- Completion of college or petroleum industry approved training courses is required.
- Completion of secondary school is required.
- Provincial certification as an underground mine supervisor, shift boss, or coal mining supervisor may be required.
- Several years of experience in the occupations supervised are usually required.

*Additional information*

- Mobility between surface mining, underground mining, coal or metal mining sectors may be limited by differences in production technologies and licensing requirements.
- There is mobility between employers, especially for supervisors with post-secondary diplomas or degrees.

## 8222 Contractors and supervisors, oil and gas drilling and services

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in drilling for oil or gas, operating service rigs, or providing oil and gas well services. They are employed by drilling and well service contracting companies and by petroleum producing companies. Oil field consultants may be self-employed.

*Inclusion(s)*

- oil field consultant
- toolpusher

*Illustrative example(s)*

- fracturing supervisor
- multi-service operator - oil field services
- rig manager
- well services crew supervisor

*Exclusion(s)*

- Geological and mineral technologists and technicians (see 2212 Geological and mineral technologists and technicians)
- Managers in natural resources production and fishing (see 0811 Managers in natural resources production and fishing)
- Oil and gas well drillers, servicers, testers and related workers (see 8232 Oil and gas well drillers, servicers, testers and related workers)
- Oil and gas well drilling and related workers and services operators (see 8412 Oil and gas well drilling and related workers and services operators)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who drill for oil and gas, operate service rigs or provide oil and gas well services
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition and procure materials and supplies
- Resolve work problems and recommend measures to improve productivity and safety
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

*Employment requirements*

- A two-year college diploma in petroleum engineering technology may be required.
- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, well control, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG) or other safety and technical subjects are required and are obtained by completing short courses.
- Completion of secondary school is usually required.
- Extensive experience in the occupations supervised is required.
- Formal training of up to six weeks followed by extended periods of specialized training as a helper or in support occupations is usually provided.

*Additional information*

- There is little mobility for supervisors from well services to well drilling.

## 823 Underground miners, oil and gas drillers and related occupations

This minor group includes underground production and development miners; and oil and gas well drillers, servicers, testers and related workers. They are employed by coal, metal and non-metallic mineral underground mines; specialized contractors in mine construction, shaft sinking and tunnelling; drilling and well service contractors; petroleum producing companies; and well logging and testing companies.

### 8231 Underground production and development miners

Underground production and development miners drill, blast, operate mining machinery, and perform related duties to extract coal and ore in underground mines and to construct tunnels, passageways and shafts to facilitate mining operations. They are employed by coal, metal and non-metallic mineral underground mines and by specialized contractors in mine construction, shaft sinking and tunnelling.

*Illustrative example(s)*

- blaster - underground mining
- chute blaster - underground mining
- diamond driller - underground mining
- drift miner
- driller - underground mining
- hardrock miner apprentice
- hoist operator - underground mining
- miner
- mining machine operator
- powderman/woman - underground mining
- raise miner
- roadheader operator
- scooptram operator
- shaft inspector

*Exclusion(s)*

- Drillers and blasters - surface mining, quarrying and construction (see 7372 Drillers and blasters - surface mining, quarrying and construction)
- Mine labourers (see 8614 Mine labourers)
- Supervisors, mining and quarrying (see 8221 Supervisors, mining and quarrying)
- Underground mine service and support workers (see 8411 Underground mine service and support workers)

*Main duties*

Underground production and development miners perform some or all of the following duties:

- Set up and operate drills and drilling machines to produce a designated pattern of blasting holes
- Operate diamond drills or other specialized drills such as raise boring machinery to test geological formations or to produce underground passageways
- Set up and operate mining machinery to shear coal, rock or ore from the working face
- Load explosives, set fuses, and detonate explosives to produce desired blasting patterns and rock fragmentation in underground mines
- Operate scooptram, load-haul-dump (LHD) machine or mucking machine to load and haul ore from stopes, drifts and drawpoints to ore passes
- Perform duties required to ensure safety and to support the mining advance, such as scaling loose rock from walls and roof, drilling and installing rock bolts, extending and installing air and water pipes, operating ore loading machinery, inspecting mine shafts, operating hoists that transport people, equipment and materials through mine shafts, and constructing timber supports and cribbing if required
- Perform routine maintenance of mining machinery.

*Employment requirements*

- A chemical application licence may be required.

- An industrial first aid certificate may be required.
- Certificate in first aid may be required.
- Company licensing or certification is often required for occupations in this unit group.
- Completion of secondary school is usually required.
- May be certified in the basic common core program or as an underground hard rock miner in Ontario.
- Several years of experience as a logger, silvicultural worker, or logging machinery operator are usually required.
- Trade certification for miners is available, but voluntary, in Quebec.

*Additional information*

- Mobility between these sectors is somewhat limited by differences in production technologies.
- Mobility is possible to other occupational groups in underground mining such as underground service and support occupations.
- Progression to mining supervisor is possible with experience.
- There is mobility between employers within each of the three following sectors: underground coal mining, underground hard rock mining and underground potash, salt or soft rock mining.

## 8232 Oil and gas well drillers, servicers, testers and related workers

Oil and gas well drillers and well servicers control the operation of drilling and hoisting equipment on drilling and service rigs, and direct the activities of the rig crew under supervision of the rig manager. Oil and gas well loggers, testers and related workers operate specialized mechanical or electronic equipment, tools or instruments to provide services in conjunction with well drilling, completion or servicing. Workers in this unit group are employed by drilling and well service contractors, petroleum producing companies and well logging or testing companies.

*Illustrative example(s)*

- assistant driller - oil and gas well drilling
- directional drilling operator
- downhole tool operator
- drill stem tester
- driller - oil and gas drilling
- electric line operator
- logging and perforating operator
- service rig operator
- slickline operator
- well testing operator
- wireline operator

*Exclusion(s)*

- Oil and gas well drilling and related workers and services operators (see 8412 Oil and gas well drilling and related workers and services operators)
- Rig managers (see 8222 Contractors and supervisors, oil and gas drilling and services)
- Water well drillers (see 7373 Water well drillers)

*Main duties*

Oil and gas well drillers and well servicers perform some or all of the following duties:

- Direct rig crew in setting up rigs and drilling, completing or servicing oil and gas exploration and producing wells
- Operate controls of drill or service rig drilling and hoisting machinery
- Train or arrange for training of crew
- Maintain records of drilling and servicing operations
- Ensure safety procedures are followed.

Oil and gas well loggers, testers and related workers perform some or all of the following duties:

- Drive well service or wireline truck to well site
- Assemble and attach equipment, tools or recorders to drill stem or wireline to conduct required procedures and tests

- Operate or direct the operation of wireline or unit controls to lower, position and retrieve equipment and instruments
- Operate recorders and computers in mobile testing or logging unit to collect data
- May perform limited data interpretation.

*Employment requirements*

- A college diploma in drilling may be required.
- A provincial blaster's licence, and seismic blaster and oil well blaster certification are required for well perforation services.
- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, well control, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG) and a special oil well operator (boiler) certificate are required.
- Completion of a college program in electronics or engineering technology may be required for open hole well logging.
- Completion of secondary school may be required.
- Offshore work requires several years of experience in an equivalent position on land.
- Oil and gas well drillers and well servicers require three to six months of formal on-the-job training, college or petroleum industry-approved training courses and four or more years of work experience in subordinate rig crew positions.
- Oil and gas well loggers, testers and related workers require three to six months of formal on-the-job training and several years of experience in subordinate logging and testing positions or on drilling and servicing rigs.
- Red Seal endorsement is also available to qualified rig technicians upon successful completion of the interprovincial Red Seal examination.
- Trade certification for rig technician is compulsory in Alberta and available, but voluntary, in Newfoundland and Labrador, Nova Scotia, Prince Edward Island, Manitoba, Saskatchewan, British Columbia and the Northwest Territories.

*Additional information*

- Mobility between jobs on drilling and service rigs is limited by the differences in the machinery, tools and operations performed, but mobility is possible especially from drilling to service rigs.
- Progression to crew supervisor or manager is possible with experience and additional education and training.
- The Red Seal endorsement allows for interprovincial mobility.

## 824 Logging machinery operators

This minor group includes logging machinery operators. They are employed by logging companies and contractors.

### 8241 Logging machinery operators

Logging machinery operators operate cable yarding systems, mechanical harvesters and forwarders and mechanical tree processors and loaders to fell, yard and process trees at logging sites. They are employed by logging companies and contractors.

*Illustrative example(s)*

- chipping machine operator
- delimber operator
- feller buncher operator
- feller forwarder operator
- grapple operator - logging
- linehorse operator
- loader operator - logging
- log processor operator
- rigging slinger - logging
- shortwood harvester operator

- slasher operator - logging
- steel spar operator - logging
- treelength forwarder operator
- yarder operator - logging

*Exclusion(s)*

- Chain saw and skidder operators (see 8421 Chain saw and skidder operators)
- Heavy equipment operators (except crane) (see 7521 Heavy equipment operators (except crane))
- Silviculture and forestry workers (see 8422 Silviculture and forestry workers)
- Supervisors, logging and forestry (see 8211 Supervisors, logging and forestry)
- Transport truck drivers (see 7511 Transport truck drivers)

*Main duties*

Logging machinery operators perform some or all of the following duties:

- Cable yarding system operators operate machines to transport trees from logging areas to landing or log loading sites in mountainous terrain in western Canada.
- Mechanical harvester and forwarder operators assess site and terrain and drive heavy equipment to perform a combination of felling, slashing, bucking, bunching and forwarding operations at logging areas.
- Mechanical tree processor and loader operators operate a variety of machines which perform a combination of slashing, bucking, chipping, sorting and loading logs or trees at landing sites.

*Employment requirements*

- Agricultural service contractors usually require a university degree, college diploma or industry courses in agricultural studies and several years of experience related to the service offered.
- Certification as a heavy equipment operator may be required.
- Company certification for mobile logging machinery operation may be required.
- Experience requirements vary depending on the complexity of machinery operated.
- Feller buncher operators and cable yarder operators usually require three to five years of logging experience.
- Knowledge of tree harvesting regulations is required.
- Mechanical harvester and forwarder operators may require logging experience as a chain saw and skidder operator.
- Mechanical tree processor and loader operators usually require one to three years of logging experience.
- On-the-job training from three to 16 months is provided, depending on the complexity of machinery operated and the type of woodlands operation.
- Provincial air brake certification may be required in British Columbia, depending on the type of equipment operated.
- Workplace hazardous materials information system (WHMIS) and first aid certificates may be required.

*Additional information*

- Logging machinery operators may perform minor repairs and maintenance on their equipment.
- Progression to logging and forestry supervisory positions is possible with experience.
- Self-employment as a logging contractor is possible with investment in equipment.
- There is some mobility among jobs in this group from the less complex to more complex machinery operation.
- There is some mobility between employers, particularly in similar types of woodland operations.

## 825 Contractors and supervisors, agriculture, horticulture and related operations and services

This minor group includes agricultural service and landscaping and grounds maintenance contractors who own and operate their own businesses; farm supervisors and specialized livestock workers; and supervisors in landscaping, grounds maintenance and horticulture services. They are employed on livestock and other farms; by landscaping companies, cemeteries, lawn care and tree service companies, nurseries and greenhouses; and landscaping operations of public works departments and private establishments; or they may be self-employed.

## 8252 Agricultural service contractors, farm supervisors and specialized livestock workers

Agricultural service contractors, who own and operate their own businesses, provide agricultural services such as livestock and poultry breeding, soil preparation, crop planting, crop spraying, cultivating or harvesting. Farm supervisors supervise the work of general farm workers and harvesting labourers. Specialized livestock workers carry out feeding, health and breeding programs on dairy, beef, sheep, poultry, swine and other livestock farms.

*Illustrative example(s)*

- artificial insemination service contractor
- artificial inseminator
- cattle herdsperson
- crop dusting contractor
- crop harvesting service contractor
- dairy herdsperson
- farm foreman/woman
- farm supervisor
- feedlot foreman/woman
- hog operation supervisor
- horse trainer
- livestock breeding service contractor
- pork production technician
- poultry farm foreman/woman
- ranch foreman/woman
- swine herdsperson
- vegetable farm foreman/woman

*Exclusion(s)*

- General farm workers (see 8431 General farm workers)
- Harvesting labourers (see 8611 Harvesting labourers)
- Managers in agriculture (see 0821 Managers in agriculture)
- Managers in horticulture (see 0822 Managers in horticulture)
- Pest controllers and fumigators (see 7444 Pest controllers and fumigators)
- Pet groomers and animal care workers (see 6563 Pet groomers and animal care workers)

*Main duties*

Agricultural service contractors perform some or all the following duties:

- Provide agricultural livestock services such as artificial insemination, spraying or shearing of livestock or disinfecting pens, barns or poultry houses
- Provide agricultural crop services such as plowing, irrigating, cultivating, spraying or harvesting
- Assist in the development and implementation of farm safety and bio-security procedures
- Hire and train workers
- Negotiate the terms of services to be provided
- Maintain financial and operational records
- May participate in the provision of services or in the operation of machinery and equipment.

Farm supervisors perform some or all of the following duties:

- Co-ordinate, assign and supervise the work of general farm workers and harvesting labourers
- Supervise and oversee breeding and other livestock-related programs
- Supervise, monitor and enforce procedures to maintain animal and crop health and welfare
- Supervise and oversee growing and other crop-related operations
- Supervise maintenance of infrastructure, equipment, and supplies
- Develop work schedules and establish procedures
- Ensure farm safety, food safety and security and bio-security procedures are followed
- Maintain quality control and production records
- May perform general farm duties.
- Farm supervisors may specialize in areas such as dairy, poultry, swine, beef, sheep, equine, fruit, vegetable, mixed or other specialty farming.

Specialized livestock workers perform some or all of the following duties:
- Formulate feeding programs
- Implement pasture or pen breeding programs
- Follow safety and bio-security procedures
- Recognize and treat certain livestock health problems
- Maintain livestock performance records
- Select livestock for sale
- Train horses
- Perform general farm duties
- May supervise general farm workers.
- Specialized livestock workers usually specialize in one type of farm animal such as beef cattle, dairy cattle, poultry or swine.

*Employment requirements*
- A course or certificate in first aid may be required.
- Completion of secondary school is usually required.
- Contractors providing certain services, such as artificial insemination and pesticide application, may require training certificates and provincial licensing.
- Farm supervisors and specialized livestock workers may require a college certificate or other specialized training in agriculture or livestock husbandry.

## 8255 Contractors and supervisors, landscaping, grounds maintenance and horticulture services

This unit group includes landscaping and grounds maintenance contractors, who own and operate their own businesses. This group also includes supervisors who supervise and co-ordinate the activities of workers in the following unit groups: Nursery and Greenhouse Workers (8432) and Landscaping and Grounds Maintenance Labourers (8612). They are employed by landscaping companies, cemeteries, lawn care and tree service companies, nurseries and greenhouses and by landscaping operations of public works departments and private establishments.

*Illustrative example(s)*
- greenhouse supervisor
- grounds maintenance contractor
- groundskeeping supervisor
- horticulture workers supervisor
- interior plantscaping contractor
- landscaping contractor
- landscaping foreman/woman
- landscaping supervisor
- lawn care contractor
- nursery foreman/woman
- park maintenance supervisor
- tree service contractor

*Exclusion(s)*
- Contractors and supervisors, heavy equipment operator crews (see 7302 Contractors and supervisors, heavy equipment operator crews)
- Contractors and supervisors, other construction trades, installers, repairers and servicers (see 7205 Contractors and supervisors, other construction trades, installers, repairers and servicers)
- Landscape and horticulture technicians and specialists (see 2225 Landscape and horticulture technicians and specialists)
- Landscape architects (see 2152 Landscape architects)
- Managers in agriculture (see 0821 Managers in agriculture)
- Managers in horticulture (see 0822 Managers in horticulture)

*Main duties*

Contractors and supervisors in this unit group perform some or all of the following duties:

- Supervise and co-ordinate the activities of workers who maintain lawns, gardens, athletic fields, golf courses, cemeteries, parks, interior plantscapes and other landscaped areas
- Tender bids on contracts for landscaping and grounds maintenance work
- Plan and estimate the materials and labour requirements for individual contracts
- Organize the planting and maintenance of trees, gardens, lawns, shrubs and hedges and the construction and installation of fences, decks, patios, walkways and retaining walls
- Establish work schedules and procedures and co-ordinate activities with other work units
- Resolve work-related problems and prepare and submit progress and other reports
- Requisition supplies and materials
- Maintain financial and personnel records
- Hire staff and train workers in job duties and company policies
- May manage operations of own company
- May provide snow removal services during winter months
- May perform the same duties as workers supervised.

*Employment requirements*

- A college diploma, specialized courses or industry-related training and certification in landscaping and horticulture are usually required.
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.
- Experience as a landscape or horticulture supervisor or as a landscape or horticulture technician is required.
- Experience in the type of work supervised is required.
- Some secondary school education is usually required.

## 826 Fishing vessel masters and fishermen/women

This minor group includes fishing masters and fishing vessel officers; and fishermen/women who are usually self-employed owner-operators of fishing vessels. They are employed by establishments engaged in operating commercial fishing vessels; or they may be self-employed.

### 8261 Fishing masters and officers

Fishing masters and officers manage and operate saltwater and freshwater fishing vessels greater than 100 gross tonnes to pursue and land fish and other marine life. They are employed by establishments engaged in operating commercial fishing vessels.

*Illustrative example(s)*

- fishing vessel boatswain
- fishing vessel deck officer
- fishing vessel first mate
- fishing vessel master
- offshore fishing vessel captain
- trawler captain

*Exclusion(s)*

- Deck officers, water transport (see 2273 Deck officers, water transport)
- Fishermen/women (see 8262 Fishermen/women)
- Fishing vessel engineers requiring a Transport Canada licence (see 2274 Engineer officers, water transport)

*Main duties*

Fishing masters and officers perform some or all of the following duties:

- Command fishing vessels to catch fish and other marine life

- Determine areas for fishing, plot courses and compute navigational positions using compasses, charts, tables and other aids
- Steer vessels and operate navigational instruments and electronic fishing aids such as echo sounders and chart plotters
- Direct fishing operations and supervise crew activities
- Record fishing progress, crew activities, weather and sea conditions on ship's log
- Select and train vessel crews.

*Employment requirements*

- A commercial fishing licence is required.
- A Fishing Master's Certificate is required for all occupations in this unit group.
- A valid Fishing Vessel Operator Certificate is required for all occupations in this unit group.
- Captains require one year of service as officer in charge of the watch.
- Marine Emergency Duties Certificate is required by Transport Canada.
- One to two years of experience as a fishing vessel deckhand is required.
- Several years of experience as fishing vessel crew member or helper are usually required.

*Additional information*

- Completion of Transport Canada examinations is required to advance from Fishing Master Class IV through Class I. Training programs are provided in provincial training centres.
- Progression to merchant or government vessel officer positions (which require a Marine Officer Certificate) is possible with additional training and experience.

## 8262 Fishermen/women

Fishermen/women operate fishing vessels less than 100 gross tonnes to pursue and land fish and other marine life. They are usually self-employed owner-operators of fishing vessels.

*Inclusion(s)*

- seaweed dragger
- shellfish harvester operator

*Illustrative example(s)*

- fisherman/woman
- fishing vessel skipper
- inshore fisherman/woman
- lobster fisherman/woman
- longliner fisherman/woman
- seiner fisherman/woman

*Exclusion(s)*

- Fishing masters and officers (see 8261 Fishing masters and officers)
- Fishing vessel deckhands (see 8441 Fishing vessel deckhands)

*Main duties*

Fishermen/women perform some or all of the following duties:

- Operate fishing vessel to pursue and catch fish and other marine life
- Select area for fishing, plot courses and compute navigational positions using compasses and charts or electronic fishing aids
- Steer vessel and operate navigational instruments
- Operate fishing gear, direct fishing operation and supervise fishing crew members
- Maintain engine, fishing gear and other on-board equipment
- Record fishing activities, weather and sea conditions
- Estimate costs of operations and plan budget for each fishing season
- Establish fish marketing plan and keep records of all financial transactions
- May transport fish to processing plants or fish buyers.

*Employment requirements*

- A commercial fishing licence is required.
- A valid Fishing Vessel Operator Certificate is required.
- Completion of secondary school is usually required.
- Licences are required for each species of fish pursued.
- Marine Emergency Duties Certificate is required by Transport Canada.
- Trade certification for fish harvesters is available, but voluntary, in Newfoundland and Labrador.

*Additional information*

- Progression to master or mate on fishing vessels over 100 gross tonnes is possible with additional training, licensing and experience.

## 84 Workers in natural resources, agriculture and related production

This major group comprises workers in natural resources, agriculture and related production occupations, which usually require completion of secondary school and some training, a licence or certification. It includes mine service workers and operators in oil and gas drilling; logging and forestry workers; agriculture and horticulture workers; and other workers in fishing, trapping and hunting occupations.

## 841 Mine service workers and operators in oil and gas drilling

This minor group includes underground mine service and support workers; and oil and gas well drilling and related workers and services operators. They are employed by coal, metal and non-metallic mineral mines; drilling and well service contractors; and petroleum producing companies.

## 8411 Underground mine service and support workers

Underground mine service and support workers perform a range of duties related to the operation of orepasses, chutes and conveyor systems, the construction and support of underground structures, passages and roadways, and the supply of materials and supplies to support underground mining. They are employed by coal, metal and non-metallic mineral mines.

*Illustrative example(s)*

- backfiller - underground mining
- blaster helper - underground mining
- cage tender
- conveyor operator - underground mining
- crusher operator - underground mining
- driller helper - underground mining
- haulageman/woman - underground mining
- lamp keeper - underground mining
- materialman/woman - underground mining
- mine construction worker
- orepass tender - underground mining
- pipeworker - underground mining
- raise miner helper
- skip tender
- timberman/woman - underground mining
- trainman/woman - underground mining

*Exclusion(s)*

- Drillers and blasters - surface mining, quarrying and construction (see 7372 Drillers and blasters - surface mining, quarrying and construction)
- Mine labourers (see 8614 Mine labourers)
- Underground production and development miners (see 8231 Underground production and development miners)

*Main duties*

Underground mine service and support workers perform some or all of the following duties:

- Operate and maintain ore chutes or conveyor systems to control flow of ore or coal in underground mine
- Operate construction equipment such as bulldozer, grader or backhoe to build and maintain underground passages and haulageways
- Construct and repair wood or metal supports and structures such as bulkheads, platforms, drift doors and chutes using construction and mining tools
- Attach and extend ventilation and water pipes and related mine services
- Assist miners in setting up and operating various drills and other mining machinery
- Supply and maintain backfill distribution of sand, rock or other materials
- Operate diesel or electric track haulage equipment such as ore trains to distribute personnel and supplies and to convey ore from orepass to primary crusher or skip
- Maintain supply storage areas and maintain equipment and supplies such as explosives, drill bits, fire extinguishers, lamps and batteries
- Perform routine maintenance of machinery.

*Employment requirements*

- Company licensing or certification is often required for occupations in this unit group.
- Completion of secondary school is required.
- May be certified in the basic common core program in Ontario.
- Previous experience as a mine labourer is usually required.
- Previous formal training of up to six weeks followed by periods of on-the-job training as a helper or in support occupations is usually required.

*Additional information*

- Mobility between these sectors is somewhat limited by differences in production technologies.
- Mobility is possible to other occupational groups in underground mining.
- There is mobility between employers within each of the three following sectors: underground coal mining, underground hard rock mining and underground potash, salt or soft rock mining.

## 8412 Oil and gas well drilling and related workers and services operators

Oil and gas well drilling workers operate drilling and service rig machinery as intermediate members of the rig crew. Oil and gas well services operators drive trucks and operate specialized hydraulic pumping systems to place cement in wells or to treat wells with chemicals, sand mixtures or gases to stimulate production. Workers in this unit group are employed by drilling and well service contractors and by petroleum producing companies.

*Inclusion(s)*

- seismic buried facilities locator

*Illustrative example(s)*

- acidizer - oil field services
- blender operator - oil field services
- control room operator - offshore drilling
- derrickman/woman
- motorhand - oil and gas drilling
- oil well cementer - oil field services
- pumper operator - oil field services
- pumpman/woman - oil field services
- rig technician - derrickhand

*Exclusion(s)*

- Contractors and supervisors, oil and gas drilling and services (see 8222 Contractors and supervisors, oil and gas drilling and services)
- Oil and gas drilling, servicing and related labourers (see 8615 Oil and gas drilling, servicing and related labourers)

- Oil and gas well drillers, servicers, testers and related workers (see 8232 Oil and gas well drillers, servicers, testers and related workers)

*Main duties*

Oil and gas well drilling workers perform some or all of the following duties:

- Use specialized equipment, information and maps to determine and document the location of buried pipelines and other utilities in preparation for seismic exploration and drilling activities
- Align and manipulate sections of pipe or drill stem from platform on rig derrick during removal and replacement of strings of pipe, or drill stem and drill bit
- Operate and maintain drilling mud systems and pumps during drilling, and mix mud, chemicals and additives
- Record mud flows and volumes and take samples
- Operate and maintain drilling rig diesel motors, transmissions and other mechanical equipment
- Assist in setting up, taking down and transporting drilling and service rigs
- Supervise floorhands and labourers.

Oil and gas well services operators perform some or all of the following duties:

- Drive well services truck to well site
- Assemble pumping equipment and attach pumps and hoses to wellhead
- Operate hydraulic pumping systems to pump chemicals, gases, sand, cement or other material into well
- Read gauges to monitor pressure, density, rate and concentration and adjust pumping procedure as required
- May mix chemicals and cements.

*Employment requirements*

- Certificates in first aid, hydrogen sulphide awareness, blowout prevention, workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG), cryogenic safety or in other safety concerns may be required.
- Completion of petroleum industry-approved training courses may be required.
- Completion of secondary school may be required.
- One year of experience as a floorhand, assistant or labourer is usually required.
- Rig technician certification for motorhands and derrickhands may be required by some employers.
- Training of up to three months with an experienced operator is required for oil and gas well services operators.

*Additional information*

- Progression to oil and gas well driller or service rig operator is possible with experience.
- Progression to supervisor of well services is possible for gas and oil well services operators.

## 842 Logging and forestry workers

This minor group includes chain saw and skidder operators; and silviculture and forestry workers. They are employed by logging companies, contractors, and government services.

### 8421 Chain saw and skidder operators

Chain saw and skidder operators operate chain saws to fell, delimb and buck trees, and operate skidders to move or yard the felled trees from the logging site to the landing area for processing and transportation. They are employed by logging companies and contractors.

*Illustrative example(s)*

- bucker
- chain saw operator - logging
- faller
- feller
- forest worker - logging
- grapple skidder operator

- landingman/woman
- pieceworker - logging
- skidder operator

*Exclusion(s)*

- Logging and forestry labourers (see 8616 Logging and forestry labourers)
- Logging contractors and supervisors (see 8211 Supervisors, logging and forestry)
- Logging machinery operators (see 8241 Logging machinery operators)
- Silviculture and forestry workers (see 8422 Silviculture and forestry workers)

*Main duties*

Chain saw and skidder operators perform some or all of the following duties:

- Operate chain saw to fell, delimb and buck trees at the logging site and loading area
- Operate cable, or grapple skidder to move or yard the felled trees from the logging site to the landing area for processing and transportation
- Assess site, terrain and weather conditions before felling and yarding trees
- May work as member of a team rotating between chain saw operation and skidder operation
- May maintain and perform minor repairs on skidders, chain saws and other equipment.

*Employment requirements*

- Completion of a college program for forest workers may be required.
- Completion of secondary school may be required.
- Formal training in chain saw operation and maintenance and several months of on-the-job training are usually provided.
- Previous experience as a logging and forestry labourer or logging machine operator may be required. Experience requirements vary depending on the type and location of woodlands operations.
- Provincial certification or a forest worker program certificate is required in some provinces.
- Trade certification for fallers is available, but voluntary in Quebec.
- Workplace hazardous materials information system (WHMIS) and first aid certificates may be required.

*Additional information*

- Chain saw operators often must own and maintain their own chain saw.
- Mobility may be limited from eastern and central forest zones to western forest zones where tree size or steep terrain may require different cutting and yarding methods.
- Progression to logging machinery operator positions is possible with experience.
- Progression to supervisory positions or self-employment as a logging contractor is possible with experience.
- There is a trend toward company certification of chain saw operators in larger companies.
- There is some mobility among jobs within this unit group as chain saw and skidder operators often work in teams and rotate jobs.

## 8422 Silviculture and forestry workers

Silviculture and forestry workers perform a variety of duties related to reforestation and to the management, improvement and conservation of forest lands. They are employed by logging companies, contractors and government services.

*Illustrative example(s)*

- clearing saw operator - forestry
- forest firefighter
- forestry crew worker
- pieceworker - silviculture
- scarification equipment operator - forestry
- silviculture worker
- thinning saw operator

*Exclusion(s)*
- Arborists (see 2225 Landscape and horticulture technicians and specialists)
- Chain saw and skidder operators (see 8421 Chain saw and skidder operators)
- Forest nursery workers (see 8432 Nursery and greenhouse workers)
- Forestry professionals (see 2122 Forestry professionals)
- Forestry technologists and technicians (see 2223 Forestry technologists and technicians)
- Logging and forestry labourers (see 8616 Logging and forestry labourers)
- Supervisors, logging and forestry (see 8211 Supervisors, logging and forestry)

*Main duties*

Silviculture and forestry workers perform some or all of the following duties:
- Assess site, select seedlings and plant trees using manual planting tools in reforestation areas
- Operate power thinning saw to thin and space trees in reforestation areas
- Operate chain saw to thin young forest stands
- Control weeds and undergrowth in regenerating forest stands using manual tools and chemicals
- Complete firefighting reports and maintain firefighting equipment
- Dig trenches, cut trees, pump water on burning areas to fight forest fires under direction of fire suppression officer or forestry technician
- Operate and maintain a skidder, bulldozer or other prime mover to pull a variety of scarification or site preparation equipment over areas to be regenerated
- Perform other silviculture duties such as collecting seed cones, pruning trees, assisting in planting surveys and marking trees for subsequent operations.

*Employment requirements*
- A chemicals application licence is required.
- A silvicultural worker's licence may be required.
- Completion of a college or other specialized program for silviculture workers or forestry crew workers may be required.
- Experience as a logging and forestry labourer may be required.
- Formal training in power saw operation and maintenance and several months of on-the-job training are usually provided.
- There are no specific education or training requirements. However, a college certificate or specialized courses related to farming, such as farm equipment mechanics, agricultural welding, tree pruning and pesticide application, are available.
- Workplace hazardous materials information system (WHMIS) and transportation of dangerous goods (TDG) certificates may be required.

*Additional information*
- Progression to forestry technician or technologist is possible with additional education and training.
- Progression to supervisory positions is possible with experience.
- There is some mobility among jobs in this unit group.

## 843 Agriculture and horticulture workers

This minor group includes general farm workers and nursery and greenhouse workers. They are employed on crop, livestock, fruit, vegetable and specialty farms; and in indoor and outdoor nurseries and greenhouses.

### 8431 General farm workers

General farm workers plant, cultivate and harvest crops, raise livestock and poultry and maintain and repair farm equipment and buildings. This group includes operators of farm machinery. General farm workers are employed on crop, livestock, fruit, vegetable and specialty farms.

*Illustrative example(s)*
- beef cattle farm worker
- cattle ranch labourer

- dairy farm worker
- farm machinery operator
- general farm worker
- grain farm worker
- harvester machine operator
- hatchery worker
- poultry farm worker
- vegetable farm worker

*Exclusion(s)*

- Agricultural service contractors, farm supervisors and specialized livestock workers (see 8252 Agricultural service contractors, farm supervisors and specialized livestock workers)
- Harvesting labourers (see 8611 Harvesting labourers)
- Managers in agriculture (see 0821 Managers in agriculture)

*Main duties*

General farm workers perform some or all of the following duties:

- Plant, fertilize, cultivate, spray, irrigate and harvest crops
- Feed and tend livestock and poultry
- Milk cows
- Perform or assist in performing breeding activities of farm animals
- Operate and maintain farm machinery and equipment
- Follow food safety and security and animal bio-security procedures
- Detect disease and health problems in crops, livestock and poultry
- Examine produce for quality and prepare for market
- Set and monitor water lines, air flow and temperature in barns, pens and chicken coops
- Maintain or assist in the maintenance of facilities and farm infrastructure including cleaning stables, barns, barnyards and pens.
- General farm workers can become specialized in a particular type of crop or livestock production through experience.

*Employment requirements*

- A course or certificate in first aid may be required.
- Basic farm knowledge, usually obtained from working on a family farm, may be required for employment.
- Completion of secondary school may be required.

*Additional information*

- Progression to supervisory positions is possible with experience.

### 8432 Nursery and greenhouse workers

Nursery and greenhouse workers plant, cultivate and harvest trees, shrubs, flowers and plants, and serve nursery and greenhouse customers. They are employed in indoor and outdoor nurseries and greenhouses.

*Illustrative example(s)*

- forest nursery worker
- greenhouse worker
- horticulture worker
- hothouse worker
- hydroponics worker
- nursery worker

*Exclusion(s)*

- Contractors and supervisors, landscaping, grounds maintenance and horticulture services (see 8255 Contractors and supervisors, landscaping, grounds maintenance and horticulture services)
- General farm workers (see 8431 General farm workers)

- Harvesting labourers (see 8611 Harvesting labourers)
- Landscaping and grounds maintenance labourers (see 8612 Landscaping and grounds maintenance labourers)
- Managers in horticulture (see 0822 Managers in horticulture)
- Silviculture and forestry workers (see 8422 Silviculture and forestry workers)

*Main duties*

Nursery and greenhouse workers perform some or all of the following duties:

- Prepare soil; plant bulbs, seeds and cuttings; graft and bud plants; and transplant seedlings and rooted cuttings
- Monitor plants for healthy growth and potential weed, insect, disease, and fertilizer problems in greenhouse crops
- Spray trees, shrubs, flowers and plants to prevent disease and pests
- Position and regulate greenhouse and outdoor irrigation systems to water plants and fields
- Dig, cut and transplant trees, shrubs, flowers and plants and prepare them for sale
- Provide information to customers on gardening, the use of various garden tools and products and the care of trees, shrubs, flowers, plants and lawns
- May operate tractors and other machinery and equipment to fertilize, cultivate, harvest and spray fields and plants
- Maintain inventory and order materials as required
- Clean working areas.

*Employment requirements*

- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.
- Completion of college courses in horticulture or a related field may be required.
- On-the-job training is provided.
- There are no specific educational requirements.

*Additional information*

- Progression to supervisory positions, such as greenhouse supervisor, is possible with experience.

## 844 Other workers in fishing and trapping and hunting occupations

This minor group includes fishing vessel deckhands; and trappers and hunters who are usually self-employed and work on a seasonal basis. They are employed by establishments that operate commercial fishing vessels; and fishermen/women who are usually self-employed owner-operators of fishing vessels; or they may be self-employed.

### 8441 Fishing vessel deckhands

Fishing vessel deckhands perform a variety of manual tasks on commercial fishing voyages, and maintain fishing vessels. They are employed by establishments that operate commercial fishing vessels and by self-employed fishermen/women.

*Illustrative example(s)*

- fishing vessel crewman/woman
- fishing vessel deckhand
- fishing vessel icer
- fishing vessel netmender
- seiner deckhand
- trawlerman/woman

*Exclusion(s)*

- Deck officers, water transport (see 2273 Deck officers, water transport)
- Fishermen/women (see 8262 Fishermen/women)
- Fishing masters and officers (see 8261 Fishing masters and officers)

*Main duties*

Fishing vessel deckhands perform some or all of the following duties:
- Prepare nets, lines and other fishing tackle, and operate fishing gear to catch fish and other marine life
- Sort, return protected species to the water, clean and pack fish in ice and stow catch in hold
- Repair nets, splice ropes and maintain fishing gear and other deck equipment
- Clean deck surfaces and fish hold
- Handle anchors and mooring lines during docking and undocking procedures
- May steer vessels to and from fishing areas
- May prepare and cook meals for crew members.

*Employment requirements*
- A deckhand training program may be required.
- Completion of trapping or hunting courses may be required in some provinces.
- Fishing vessel deckhands require a commercial fishing licence.
- Marine Emergency Duties certificate is required by Transport Canada.
- On-the-job training is provided.
- Trawlermen/women require at least one year of experience.

*Additional information*
- Fishing vessel deckhands may become skippers upon acquiring an entry licence and a boat.
- Fishing vessel deckhands may progress to watchkeeper or mate positions with additional training.

## 8442 Trappers and hunters

Trappers and hunters trap and hunt wild animals for pelts or live sale. They are usually self-employed and work on a seasonal basis.

*Illustrative example(s)*
- fur trapper
- game trapper
- hunter
- sealer
- trapper

*Exclusion(s)*
- Animal control trappers or nuisance control trappers (see 7444 Pest controllers and fumigators)
- Hunting guides (see 6532 Outdoor sport and recreational guides)

*Main duties*

Trappers perform some or all of the following duties:
- Set traps with bait and position traps along trails
- Operate snowmobiles or travel on foot, snowshoes or skis to patrol trapline
- Remove catch and reset traps and snares
- Kill and skin catch for pelts, and treat and pack pelts for marketing
- Trap live animals for sale to buyers or for relocation purposes
- Maintain and repair trapping equipment
- Maintain trails and access to trapping lines
- Trap designated animals for bounty or other control programs
- May monitor animal population in the trapping regions to ensure future sustainability.

Hunters perform some or all of the following duties:
- Operate boats or snowmobiles or travel on foot to reach hunting areas
- Pursue animals by observing and recognizing tracks, trails, animal droppings or broken foliage
- Train dogs for hunting
- Kill wild animals using firearms or other weapons
- Skin dead animals for pelts using knives

- Treat, pack and transport pelts to processing plants or to public auctions
- Maintain hunting equipment
- May monitor animal population in the hunting regions to ensure future sustainability.
- Trappers and hunters may specialize in trapping or hunting a particular kind of animal.

*Employment requirements*
- A provincial trapping or hunting licence is required.
- There are no specific education or training requirements.

*Additional information*
- In some jurisdictions, trappers may be allocated trapping areas based on their experience.

## 86 Harvesting, landscaping and natural resources labourers

This major group comprises labourers in harvesting, landscaping and natural resources occupations which may require certification, secondary school completion or some secondary school education. It includes harvesting, landscaping and natural resources labourers.

## 861 Harvesting, landscaping and natural resources labourers

This minor group includes harvesting labourers; landscaping and grounds maintenance labourers; aquaculture and marine harvest labourers; mine labourers; oil and gas drilling, servicing and related labourers; and logging and forestry labourers. They are employed by farms; landscaping and lawn care companies, golf courses, cemeteries, and landscaping operations of public works departments and private establishments; public and private fish hatcheries and commercial aquatic farms; coal, metal and non-metallic mineral mines; drilling and well servicing contractors and petroleum producing companies; and logging companies and contractors; or they may be self-employed.

### 8611 Harvesting labourers

Harvesting labourers assist other farm workers to harvest, sort and pack crops.

*Illustrative example(s)*
- apple picker
- berry picker
- crop farm labourer - harvesting
- fruit picker
- fruit sorter - farm
- harvest hand
- vegetable packer - farm

*Exclusion(s)*
- Agricultural service contractors, farm supervisors and specialized livestock workers (see 8252 Agricultural service contractors, farm supervisors and specialized livestock workers)
- General farm workers (see 8431 General farm workers)
- Managers in agriculture (see 0821 Managers in agriculture)

*Main duties*

Harvesting labourers perform some or all of the following duties:
- Pick row and orchard crops
- Sort, weigh and pack fruit and vegetables at the farm
- Load, unload and transfer crates, supplies, farm produce and products for transport
- Clean up racks, trays, and harvest bins and general clean up of growing, producing and packing areas
- Assist with general farm maintenance and maintenance of equipment and tools
- May assist in preparing garden beds for planting
- May write daily progress reports of inventory harvested.

*Employment requirements*
- Some secondary school education may be required.

*Additional information*
- Progression to other farm worker positions is possible with experience.

## 8612 Landscaping and grounds maintenance labourers

Landscaping and grounds maintenance labourers perform work to assist in the construction of landscapes and related structures, and to maintain lawns, gardens, athletic fields, golf courses, cemeteries, parks, landscaped interiors and other landscaped areas. They are employed by landscaping and lawn care companies, golf courses, cemeteries, and landscaping operations of public works departments and private establishments.

*Illustrative example(s)*
- bulb planter - landscaping
- cemetery labourer
- gardening helper
- golf course worker
- grass cutter
- grounds maintenance worker
- landscape labourer
- park maintenance labourer
- park maintenance worker
- sod layer
- transplanter - landscape maintenance

*Exclusion(s)*
- Landscape and horticulture technicians and specialists (see 2225 Landscape and horticulture technicians and specialists)
- Nursery and greenhouse workers (see 8432 Nursery and greenhouse workers)
- Other trades helpers and labourers (see 7612 Other trades helpers and labourers)
- Public works and maintenance labourers (see 7621 Public works and maintenance labourers)
- Public works maintenance equipment operators and related workers (see 7522 Public works maintenance equipment operators and related workers)
- Residential and commercial installers and servicers (see 7441 Residential and commercial installers and servicers)

*Main duties*

Landscaping and grounds maintenance labourers perform some or all of the following duties:
- Spread top soil, lay sod, plant flowers, grass, shrubs and trees and perform other duties to assist with the construction of a landscape and related structures
- Cut grass, rake, aerate, dethatch, fertilize and water lawns, weed gardens, prune shrubs and trees and perform other maintenance duties as directed by supervisor
- Maintain lawns and grass along roadsides
- Operate and maintain power mowers, tractors, chain saws, electric clippers, sod cutters, pruning saws, snowblowers and other landscape maintenance equipment
- Spray and dust trees, shrubs, lawns and gardens, as directed, to control insects and disease
- Perform other manual duties to clean and maintain landscaped environments.

*Employment requirements*
- A provincial licence to apply chemical fertilizers, fungicides, herbicides and pesticides may be required.
- Some secondary school education is usually required.

*Additional information*
- Progression to technical or supervisory occupations in landscaping and horticulture is possible with additional training or experience.

## 8613 Aquaculture and marine harvest labourers

This unit group includes aquaculture support workers, marine plant gatherers, shellfish diggers and other labourers in aquaculture and fishing. Aquaculture support workers are employed by public or private fish hatcheries and commercial aquatic farms. Marine plant gatherers and mollusk harvesters may be self-employed.

*Illustrative example(s)*

- aquaculture support worker
- clam digger
- dulse gatherer
- fish farm helper
- fish tagger
- fry marker
- marine plant gatherer
- oyster picker
- sea farm attendant
- seaweed gatherer
- shellfish harvester

*Exclusion(s)*

- Fishermen/women (see 8262 Fishermen/women)
- Fishing vessel deckhands (see 8441 Fishing vessel deckhands)
- Managers in aquaculture (see 0823 Managers in aquaculture)

*Main duties*

Aquaculture support workers perform some or all of the following duties:

- Assist aquaculture technicians in the operation of fish hatcheries or other aquatic farms
- Feed aquaculture stocks, vaccinate stocks, perform culling and marking or banding techniques and report any observed irregularities in stocks
- Operate, maintain and clean pumps, filters, tanks and other aquaculture equipment and clean and maintain aquaculture enclosures
- Keep daily records of water flow and fish, shellfish and marine plant samples
- Grade and weigh aquaculture stocks
- Prepare aquaculture stocks for market
- May operate boats for aquaculture operations.

Marine plant gatherers perform some or all of the following duties:

- Rake seaweed, dulse or Irish moss from beach, rocks or shallow water and load into a cart, wagon or other receptacles
- Spread gatherings to dry and remove foreign objects
- Transport gatherings to processing plant.

Mollusk harvesters perform some or all of the following duties:

- Dig clams from beds with spades, forks or other instruments, or collect other mollusks
- Clean, sort and transport mollusks to market.

*Employment requirements*

- Completion of secondary school is usually required.
- Marine Emergency Duties certificate may be required for some occupations in this unit group.
- Shellfish harvesters require commercial fishing licences.

## 8614 Mine labourers

Mine labourers carry out a variety of general labouring duties to assist in the extraction of coal, minerals and ore, and in other services in support of underground mining. They are employed by coal, metal and non-metallic mineral mines.

*Illustrative example(s)*
- chute puller
- mine helper
- mine labourer
- miner helper - underground mining
- pit scaler - underground mining
- shoveller - underground mining
- underground labourer - mining

*Exclusion(s)*
- Underground mine service and support workers (see 8411 Underground mine service and support workers)
- Underground production and development miners (see 8231 Underground production and development miners)

*Main duties*

Mine labourers perform some or all of the following duties:
- Assist other mine workers in maintaining or constructing underground installations
- Clean underground rooms, roadways, working areas and mining equipment and conveyances using hand tools
- Load, move, sort and pile materials and supplies
- Clear spills of ore or coal using hand and power tools
- May cut core and prepare core sample boxes in support of mine exploration
- Assist other workers in prospecting for mineral deposits and perform various tasks related to general geophysical surveys.

*Employment requirements*
- A short period of introductory training is provided.
- Completion of secondary school may be required.
- In Ontario, mine labourers are registered in the basic common core program.

*Additional information*
- Progression to underground production and development miner or underground mine service and support worker is possible with experience and training.
- There is mobility among jobs in this group.

## 8615 Oil and gas drilling, servicing and related labourers

Labourers in this unit group carry out a variety of general labouring duties and operate equipment to assist in the drilling and servicing of oil and gas wells. This unit group also includes labourers who assist in geophysical prospecting for oil and gas. They are employed by drilling and well servicing contractors and by petroleum producing companies.

*Inclusion(s)*
- seismic survey helper

*Illustrative example(s)*
- floorman/woman - oil and gas drilling
- leasehand
- oil field labourer
- roughneck
- roustabout
- service rig helper
- shakerhand
- swamper - oil and gas
- well treatment helper

- wireline helper

*Exclusion(s)*

- Oil and gas well drillers, servicers, testers and related workers (see 8232 Oil and gas well drillers, servicers, testers and related workers)
- Oil and gas well drilling and related workers and services operators (see 8412 Oil and gas well drilling and related workers and services operators)

*Main duties*

Labourers in this unit group perform some or all of the following duties:

- Manipulate sections of pipe or drill stem at the rig floor during drilling and during the removal and replacement of strings of pipe or drill stem and drill bit
- Maintain drilling equipment on the drill floor
- Handle, sort and move drill tools, pipe, cement and other materials
- Clean up rig areas
- Assist in setting up, taking down and transporting drilling and service rigs and service equipment
- May drive trucks to transport materials and well service equipment.

*Employment requirements*

- Certificates in hydrogen sulphide awareness, workplace hazardous materials information system (WHMIS) or transportation of dangerous goods (TDG) may be required.
- Completion of introductory college or petroleum industry-approved training courses may be required.
- Completion of secondary school may be required.

*Additional information*

- Progression to more senior operating positions is possible with experience.

## 8616 Logging and forestry labourers

Logging and forestry labourers perform a variety of manual tasks such as attaching choker cables to logs, planting trees, clearing brush, spraying chemicals, cleaning up landing areas and assisting other workers in woodlands operations. They are employed by logging companies and contractors.

*Illustrative example(s)*

- chokerman/woman
- forestry labourer
- logging labourer
- seasonal tree planter
- swamper - logging and forestry

*Exclusion(s)*

- Chain saw and skidder operators (see 8421 Chain saw and skidder operators)
- Logging machinery operators (see 8241 Logging machinery operators)
- Silviculture and forestry workers (see 8422 Silviculture and forestry workers)

*Main duties*

Logging and forestry labourers perform some or all of the following duties:

- Assist other workers at logging sites
- Attach chokers or cables to felled trees for yarding
- Plant trees using manual tools
- Spray herbicides from the ground using manual spraying equipment
- Clear trails through woodlands using chain saws
- Clean up landing areas at logging sites.

*Employment requirements*

- Chemicals application licence may be required.

- Completion of pre-employment safety courses may be required.
- Completion of secondary school is usually required.
- Several weeks of formal and on-the-job training are provided.
- Workplace hazardous materials information system (WHMIS) certificate may be required.

*Additional information*

- Progression to other positions, such as silviculture and forestry worker, chain saw and skidder operator or logging machinery operator, is possible with experience.
- There is mobility among jobs in this unit group.

## 9 Occupations in manufacturing and utilities

This category contains supervisory, production and labouring occupations in manufacturing, processing and utilities.

Occupations in this category are characterized by either technical training or internal progression, and on-the-job training. Process control occupations in this category are increasingly technical and post-secondary training is usually required. For many occupations in this category, workers typically start out as labourers and progress to machine operation occupations through experience. Progression to supervisory positions requires experience in the occupations supervised. Mobility in some of these occupations may be limited by seniority provisions of collective agreements, or may require additional training.

## 92 Processing, manufacturing and utilities supervisors and central control operators

This major group comprises supervisors and central control operator occupations in processing, manufacturing and utilities which usually require completion of secondary school and several years of experience, and may require a college diploma, some postsecondary education, a licence or certification. This major group includes processing and manufacturing supervisors; assembly and fabrication supervisors; central control and process operators in processing and manufacturing; and utilities equipment operators and controllers.

## 921 Supervisors, processing and manufacturing occupations

This minor group includes supervisors in mineral and metal processing; petroleum, gas and chemical processing and utilities; food, beverage and associated products processing; plastic and rubber products processing; forest products processing; and textile, fabric, fur and leather products processing and manufacturing. They are employed by mineral ore and metal processing plants, cement processing plants, clay, glass and stone processing plants and foundries; petroleum and natural gas processing, pipeline and petrochemical companies, chemical and pharmaceutical companies, electric power utilities, and water and waste treatment utilities; fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food, beverage and associated products processing establishments; rubber and plastic products manufacturing companies and in plastic parts divisions of other manufacturing companies; pulp and paper companies, paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies; and textile manufacturing companies, tanneries and other manufacturers of fabric, fur and leather products.

## 9211 Supervisors, mineral and metal processing

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in mineral and metal processing and manufacturing. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

*Illustrative example(s)*

- blast furnace foreman/woman
- brick and tile foreman/woman
- cement processing supervisor
- coremaking foreman/woman - foundry

- die casting supervisor
- glass cutters supervisor
- lead refining foreman/woman
- lime preparation foreman/woman
- melting and roasting department supervisor
- ore milling supervisor
- roll shop operations coach - steel mill
- steel mill shift co-ordinator

*Exclusion(s)*

- Supervisors, mining and quarrying (see 8221 Supervisors, mining and quarrying)
- Supervisors, other mechanical and metal products manufacturing (see 9226 Supervisors, other mechanical and metal products manufacturing)

*Main duties*

Supervisors, mineral and metal processing, perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers engaged in the following duties: operating single or multi-function mineral and metal processing machinery and equipment; operating mouldmaking and coremaking machines or manually make moulds and cores; operating glass process control, forming and finishing machines; operating concrete, clay and stone forming and finishing machines; and operating cement process control machines and equipment
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Requisition materials and supplies
- Resolve work problems and recommend work measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

*Employment requirements*

- Completion of secondary school is required.
- Post-secondary education in metallurgy, sciences or a related field may be required for some occupations in this unit group.
- Several years of experience in metal manufacturing or mineral/metal processing environment are usually required.

## 9212 Supervisors, petroleum, gas and chemical processing and utilities

Supervisors in this unit group supervise and co-ordinate the activities of workers in the following unit groups: Petroleum, Gas and Chemical Process Operators (9232), Power Engineers and Power Systems Operators (9241), Water and Waste Treatment Plant Operators (9243).Chemical Plant Machine Operators (9421) and Labourers in Chemical Products Processing and Utilities (9613), They are employed by petroleum and natural gas processing, pipeline and petrochemical companies, chemical and pharmaceutical companies, electric power utilities, water and waste treatment utilities and in a range of other industries and institutions.

*Illustrative example(s)*

- chemical processing supervisor
- cosmetics processing foreman/woman
- natural gas plant foreman/woman
- paint processing foreman/woman
- petroleum refining supervisor
- pharmaceuticals production supervisor
- pipeline operations supervisor
- power station supervisor
- sewage treatment plant supervisor
- specialty chemicals production supervisor

- water purification plant foreman/woman

*Exclusion(s)*

- Supervisors of telecommunications workers, power utility electricians and power line workers (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who operate petroleum refineries, chemical plants, water and waste treatment plants and equipment, pipelines, heating plants and power stations and systems
- Identify, investigate, correct and document potential environmental and safety problems
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Provide information for maintenance plans to ensure that maintenance and production objectives are met
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports and develop and manage operating budget for area of responsibility
- May also supervise, co-ordinate and schedule the activities of trades workers, labourers or other workers.

*Employment requirements*

- Completion of secondary school is usually required.
- Post-secondary education in chemical processing or sciences may be required for some occupations in this unit group.
- Several years of experience as a senior operator in the same company or plant are usually required.
- Solid waste, landfill or compost facility operator certification may be required.
- Some occupations in this unit group may require a specific licence or certification, such as a power engineer licence, refrigeration certification or wastewater treatment certification.

*Additional information*

- There is some mobility between occupations with similar technological or licensing requirements within this group.

## 9213 Supervisors, food and beverage processing

Supervisors in this unit group supervise and co-ordinate the activities of workers who operate processing and packaging machines, and workers who grade food and beverage products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food and beverage processing establishments.

*Illustrative example(s)*

- bottling supervisor - food and beverage processing
- brewer supervisor
- fish processing supervisor
- flour milling team supervisor
- food product testers supervisor
- HACCP co-ordinator
- meat packing supervisor
- packaging supervisor - food and beverage processing
- poultry graders foreman/woman
- production supervisor - food and beverage processing
- tobacco processing supervisor
- vegetable packing supervisor

*Exclusion(s)*

- Fish and seafood plant workers (see 9463 Fish and seafood plant workers)
- Industrial butchers and meat cutters, poultry preparers and related workers (see 9462 Industrial butchers and meat cutters, poultry preparers and related workers)
- Managers of food and beverage processing (see 0911 Manufacturing managers)
- Process control and machine operators, food and beverage processing (see 9461 Process control and machine operators, food and beverage processing)
- Supervisors of meat and fish inspectors (see 2222 Agricultural and fish products inspectors)
- Testers and graders, food and beverage processing (see 9465 Testers and graders, food and beverage processing)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who process, package, test and grade food and beverage products
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.
- Hazard analysis critical control point (HACCP) co-ordinators identify, evaluate, control and prevent hazards at all stages of the food production process.

*Employment requirements*

- Completion of secondary school is usually required.
- Hazard analysis critical control point (HACCP) co-ordinators require HACCP certification and several years of experience in quality assurance of food production.
- Post-secondary education in microbiology or chemistry may be required for some positions in this group.
- Several years of experience in the food or beverage processing industry are required.

## 9214 Supervisors, plastic and rubber products manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who operate processing machines and who fabricate, assemble and inspect rubber or plastic products. They are employed by rubber and plastic products manufacturing companies and in plastic parts divisions of other manufacturing companies.

*Illustrative example(s)*

- blow moulding foreman/woman - rubber and plastic manufacturing
- calendering foreman/woman - rubber and plastic manufacturing
- injection moulding foreman/woman - rubber and plastic manufacturing
- injection moulding supervisor - plastic products manufacturing
- plastic products manufacturing supervisor
- rubber products manufacturing supervisor
- tire building supervisor

*Exclusion(s)*

- Labourers in rubber and plastic products manufacturing (see 9615 Labourers in rubber and plastic products manufacturing)
- Plastic products assemblers, finishers and inspectors (see 9535 Plastic products assemblers, finishers and inspectors)
- Plastics processing machine operators (see 9422 Plastics processing machine operators)
- Rubber processing machine operators and related workers (see 9423 Rubber processing machine operators and related workers)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:
- Supervise, co-ordinate and schedule the activities of production workers who operate processing machines and who fabricate, assemble, finish or inspect plastic or rubber parts and products
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

*Employment requirements*
- Completion of secondary school is required.
- Post-secondary education in sciences or plastics technology may be required for some positions in this group.
- Several years of experience as a machine operator or an assembler in rubber or plastic products manufacturing is usually required.

## 9215 Supervisors, forest products processing

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in pulp and paper production and wood processing and manufacturing. They are employed by pulp and paper companies, paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

*Illustrative example(s)*
- coating room foreman/woman - pulp and paper
- lumber grading foreman/woman - wood processing
- paper converting supervisor
- paper machine foreman/woman
- paper mill foreman/woman
- plywood making foreman/woman
- pulp mill foreman/woman
- sawmill foreman/woman
- shift operating supervisor - pulp and paper
- shingle mill foreman/woman
- tour foreman/woman - pulp and paper
- waferboard foreman/woman
- wood-treating plant foreman/woman

*Exclusion(s)*
- Manufacturing managers (see 0911 Manufacturing managers)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:
- Supervise, co-ordinate and schedule the activities of workers who operate pulp and paper mills, paper converting mills, sawmills, planing mills, plywood, waferboard and other wood and paper products mills
- Ensure that systems and equipment are operating efficiently and that proper maintenance and repairs are performed
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions and administer the collective agreement
- Prepare production and other reports

- Monitor safety conditions
- May set up machines and equipment.

*Employment requirements*

- A college diploma in pulp and paper technology or a related discipline may be required for some pulp and paper supervisor positions.
- Certificates, such as lumber grading and industrial first aid, and a competency certificate in natural gas may be required.
- Completion of secondary school is usually required.
- Several years of experience in the most senior occupation supervised are often required.
- Several years of some combination of formal and on-the-job training are provided.

*Additional information*

- Mobility is possible between positions employing similar technology or producing similar products.
- Progression to managerial positions is possible with experience.

## 9217 Supervisors, textile, fabric, fur and leather products processing and manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers engaged in textile, fabric, fur and leather products processing and manufacturing. They are employed by textile manufacturing companies, tanneries and other manufacturers of fabric, fur and leather products.

*Illustrative example(s)*

- boot and shoe foreman/woman
- canvas products manufacturing foreman/woman
- dye room supervisor
- embroidery supervisor - fabric products
- fabric-cutting department foreman/woman
- finishing supervisor - textiles
- foreman/woman - textile processing
- fur dressing foreman/woman
- hat and cap makers foreman/woman
- knitting supervisor
- sample room foreman/woman - leather products
- sewing machine operators supervisor
- stitching department supervisor
- tannery foreman/woman

*Exclusion(s)*

- Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing (see 944 Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing)
- Master dyers and textile colour technologists (see 2211 Chemical technologists and technicians)
- Tailors, dressmakers, furriers and milliners (see 6342 Tailors, dressmakers, furriers and milliners)
- Technologists and technicians in textile manufacturing (see 2233 Industrial engineering and manufacturing technologists and technicians)
- Textile machinery mechanics (see 7311 Construction millwrights and industrial mechanics)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of production workers who operate machines to process natural, synthetic and hybrid textile fibre, yarn and thread; bleach, dye and finish textiles; operate manufacturing machines to cut, stitch and produce fabric, fur or leather garments and other products; and inspect textile products
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality

- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

*Employment requirements*

- Completion of secondary school is usually required.
- Experience may be required in a specific process, or with a specific product or type of equipment.
- Post-secondary education in textile technology or a related field may be required for some positions in this group.
- Several years of experience as a worker in the unit group being supervised are usually required.

*Additional information*

- Progression to managerial positions is possible with experience.
- There is some mobility among supervisory positions in this group.

## 922 Supervisors, assembly and fabrication

This minor group includes supervisors in motor vehicle assembling; electronics manufacturing; electrical products manufacturing; furniture and fixtures manufacturing; other mechanical and metal products manufacturing; and other products manufacturing and assembly. They are employed by plants that manufacture automobiles, vans and light trucks; electronics manufacturing plants; furniture and fixtures manufacturing establishments; companies that manufacture electrical products; and a wide variety of other manufacturing companies.

## 9221 Supervisors, motor vehicle assembling

Supervisors in this unit group supervise and co-ordinate the activities of workers in motor vehicle production departments. They are employed in plants which manufacture automobiles, vans and light trucks.

*Illustrative example(s)*

- area co-ordinator - motor vehicle manufacturing
- assembly foreman/woman - motor vehicle manufacturing
- assembly supervisor - motor vehicle manufacturing
- assembly zone supervisor - motor vehicle manufacturing
- foreman/woman - motor vehicle manufacturing
- general assembly supervisor - motor vehicle manufacturing

*Exclusion(s)*

- Motor vehicle assemblers, inspectors and testers (see 9522 Motor vehicle assemblers, inspectors and testers)
- Supervisors of engine assemblers (see 9226 Supervisors, other mechanical and metal products manufacturing)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers in motor vehicle manufacturing production departments such as body shop, chassis, paint, trim and hardware and final assembly
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Train staff in job duties, safety procedures and company policies
- Requisition materials and supplies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

*Employment requirements*

- Completion of secondary school is required.
- Post-secondary education in engineering, sciences, business or other related discipline is usually required.
- Several years of experience as a production worker in motor vehicle manufacturing are required.

*Additional information*

- Progression to managerial positions is possible with experience.

## 9222 Supervisors, electronics manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who assemble, fabricate, test, repair and inspect electronic parts, components and systems. They are employed in electronics manufacturing plants.

*Illustrative example(s)*

- assembly and testing supervisor - electronic equipment manufacturing
- communications equipment assembly supervisor - electronic equipment manufacturing
- electronic assembly foreman/woman
- final assembly and testing foreman/woman - electronic equipment manufacturing
- printed circuit board (PCB) fabrication foreman/woman - electronic equipment manufacturing
- production supervisor - electronics manufacturing
- systems test foreman/woman - electronic equipment manufacturing

*Exclusion(s)*

- Electrical and electronics engineering technologists and technicians (see 2241 Electrical and electronics engineering technologists and technicians)
- Electronic service technicians (household and business equipment) (see 2242 Electronic service technicians (household and business equipment))
- Electronics assemblers, fabricators, inspectors and testers (see 9523 Electronics assemblers, fabricators, inspectors and testers)
- Supervisors, electrical products manufacturing (see 9223 Supervisors, electrical products manufacturing)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who assemble, fabricate, inspect and test electronic and electromechanical assemblies, subassemblies, parts and components
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies and recommend personnel actions such as hirings and promotions
- Ensure safety rules and regulations are followed
- Prepare production and other reports
- May set up machines and equipment
- Supervise, co-ordinate and schedule the activities of related helpers and labourers.

*Employment requirements*

- Completion of secondary school is usually required.
- Post-secondary education in electronics or a related discipline is required.
- Several years of experience as an electronics assembler, fabricator, inspector or tester are usually required.

## 9223 Supervisors, electrical products manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who assemble, fabricate and inspect electrical components, appliances, motors and industrial equipment. They are employed by companies that manufacture electrical products.

*Illustrative example(s)*

- electrical appliance assembly foreman/woman
- electrical equipment manufacturing supervisor
- electrical motor assembly foreman/woman
- electrical transformer assembly foreman/woman
- switchgear assembly foreman/woman

*Exclusion(s)*

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (see 9524 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing)
- Assemblers, fabricators and inspectors, industrial electrical motors and transformers (see 9525 Assemblers, fabricators and inspectors, industrial electrical motors and transformers)
- Contractors and supervisors, electrical trades and telecommunications occupations (see 7202 Contractors and supervisors, electrical trades and telecommunications occupations)
- Supervisors, electronics manufacturing (see 9222 Supervisors, electronics manufacturing)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule the activities of workers who assemble, fabricate and inspect various types of electrical apparatus and equipment such as electrical appliances, batteries, electric motors, transformers and generators and electrical switchgear and control equipment
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

*Employment requirements*

- Completion of secondary school is usually required.
- Post-secondary education in electrical or manufacturing technology or other related discipline may be required for some positions in this group.
- Several years of experience as an assembler, inspector or lead hand are required.

## 9224 Supervisors, furniture and fixtures manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who manufacture furniture and fixtures made of wood or other materials. They are employed in furniture and fixtures manufacturing establishments.

*Illustrative example(s)*

- desk assembly foreman/woman
- furniture and fixtures manufacturing supervisor
- furniture assembly foreman/woman
- furniture finishers supervisor
- laminating foreman/woman
- woodworking machine operator foreman/woman - furniture and fixtures manufacturing
- woodworking machine operators supervisor - furniture and fixtures manufacturing

*Exclusion(s)*
- Cabinetmakers (see 7272 Cabinetmakers)
- Contractors and supervisors, carpentry trades (see 7204 Contractors and supervisors, carpentry trades)
- Furniture and fixture assemblers and inspectors (see 9532 Furniture and fixture assemblers and inspectors)
- Furniture finishers and refinishers (see 9534 Furniture finishers and refinishers)
- Supervisors of millwork and wood product manufacturing other than furniture and fixture, and wood machining (see 9227 Supervisors, other products manufacturing and assembly)
- Woodworking machine operators (see 9437 Woodworking machine operators)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:
- Supervise, co-ordinate and schedule the activities of workers who assemble furniture and fixtures of any materials, operate woodworking machines and finish furniture to specified colour or finish
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend work measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policy
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports.

*Employment requirements*
- Completion of secondary school is usually required.
- Experience as a furniture and fixture assembler, woodworking machine operator, cabinetmaker or furniture finisher, is usually required.

## 9226 Supervisors, other mechanical and metal products manufacturing

Supervisors in this unit group supervise and co-ordinate the activities of workers who fabricate, assemble and inspect mechanical and metal products, such as aircraft and aircraft parts, heavy trucks, buses, trailers, motor vehicle engines, transmissions, heating equipment, commercial refrigeration and similar metal products. They are employed by a wide variety of manufacturing companies.

*Illustrative example(s)*
- aircraft assembly foreman/woman
- engine assembly foreman/woman (except aircraft)
- helicopter assembly foreman/woman
- metalworking machine operators foreman/woman
- mobile home assembly foreman/woman
- shipyard painter foreman/woman
- snowmobile assembly supervisor
- truck trailer assembly foreman/woman

*Exclusion(s)*
- Aircraft engine assembly and machine fitters' supervisors (see 7301 Contractors and supervisors, mechanic trades)
- Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Supervisors, electrical products manufacturing (see 9223 Supervisors, electrical products manufacturing)
- Supervisors, motor vehicle assembling (see 9221 Supervisors, motor vehicle assembling)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:
- Supervise, co-ordinate and schedule activities of workers who assemble and inspect products such as aircraft, buses, heavy trucks, transmissions, automobile engines and refrigeration and heating equipment

- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train staff in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

*Employment requirements*

- Completion of secondary school may be required.
- Post-secondary education may be required for some occupations in this group.
- Several years of experience as an assembler or inspector in the same company are usually required.

## 9227 Supervisors, other products manufacturing and assembly

This unit group includes supervisors, not elsewhere classified, who supervise and co-ordinate the activities of workers who assemble, fabricate and inspect a variety of products, such as jewellery, clocks and watches, millwork, sporting goods, toys and other miscellaneous products. They are employed in a wide variety of manufacturing companies.

*Illustrative example(s)*

- bicycle assembly foreman/woman
- clock and watch assembly foreman/woman
- jewellery manufacturing foreman/woman
- millwork assembly foreman/woman
- millwork assembly supervisor
- silverware manufacturing supervisor
- sports equipment assembly supervisor
- toy manufacturing supervisor

*Exclusion(s)*

- Other labourers in processing, manufacturing and utilities (see 9619 Other labourers in processing, manufacturing and utilities)
- Other products assemblers, finishers and inspectors (see 9537 Other products assemblers, finishers and inspectors)
- Supervisors of woodworking machine operators (see 9224 Supervisors, furniture and fixtures manufacturing)

*Main duties*

Supervisors in this unit group perform some or all of the following duties:

- Supervise, co-ordinate and schedule activities of workers who assemble, fabricate and inspect products, such as jewellery, clocks, watches, bicycles, millwork, sporting goods and toys
- Establish methods to meet work schedules and co-ordinate work activities with other departments
- Resolve work problems and recommend measures to improve productivity and product quality
- Requisition materials and supplies
- Train workers in job duties, safety procedures and company policies
- Recommend personnel actions such as hirings and promotions
- Prepare production and other reports
- May set up machines and equipment.

*Employment requirements*

- Completion of secondary school is required.
- Several years of experience as an assembler or inspector in the same company are usually required.

*Additional information*

- There is little mobility between different types of supervisors in this unit group.

## 923 Central control and process operators in processing and manufacturing

This minor group includes central control and process operators in mineral and metal processing; petroleum, gas and chemical process operators; and pulping, papermaking and coating control operators. They are employed by mineral ore and metal processing plants; petroleum and natural gas processing, pipeline and petrochemical companies; industrial, agricultural and specialty chemical and pharmaceutical companies; and pulp and paper companies.

## 9231 Central control and process operators, mineral and metal processing

Central control and process operators, mineral and metal processing, operate and monitor multi-function process control machinery and equipment to control the processing of mineral ores, metals or cement. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries and cement processing plants.

*Illustrative example(s)*

- blast furnace operator
- central control caster
- central control room operator - primary metal processing
- chief flotation operator
- console operator - cement manufacturing
- pelletizing control operator
- roaster operator - primary metal processing
- rolling mill control operator

*Exclusion(s)*

- Foundry furnace operators and casters (see 9412 Foundry workers)
- Machine operators, mineral and metal processing (see 9411 Machine operators, mineral and metal processing)
- Supervisors, mineral and metal processing (see 9211 Supervisors, mineral and metal processing)

*Main duties*

Central control and process operators, mineral and metal processing, perform some or all of the following duties:

- Co-ordinate and monitor the operation of a particular aspect of mineral ore, metal and cement processing production through control panels, computer terminals or other control systems, usually from a central control room
- Operate multi-function central process control machinery to grind, separate, filter, melt, roast, treat, refine or otherwise process mineral ores
- Observe computer printouts, video monitors and gauges to verify specified processing conditions and to make necessary adjustments
- Co-ordinate and supervise production crew such as machine and process operators, tenders, assistants and helpers
- Start up and shut down the production system in cases of emergency or as required by schedule
- Provide or organize training for members of production crew
- Maintain shift log of production and other data and prepare production and other reports.

*Employment requirements*

- A college diploma may be required for some positions in this group.
- Completion of secondary school is required. Mathematics, chemistry and physics subjects are often specified.
- On-the-job training is provided.
- Several years of experience as a machine or process operator, usually in the same company or production department, are required.

*Additional information*

- There is little mobility among the various types of central control and process operators within the mineral and metal processing industry.
- With experience, central control and process operators may progress to supervisory positions in mineral and metal processing.

## 9232 Central control and process operators, petroleum, gas and chemical processing

Central control and process operators in this unit group monitor and operate petroleum, petrochemical and chemical plants and monitor, adjust and maintain processing units and equipment in these plants. They are employed by petroleum and natural gas processing, pipeline and petrochemical companies and industrial, agricultural and specialty chemical and pharmaceutical companies.

*Illustrative example(s)*

- acid plant operator
- chemical process operator
- chemical processing chief technician
- chlor-alkali plant cell room operator
- gas field production operator
- gas plant operator
- gas recovery operator
- master operator - chemical processing
- oil refinery process operator
- panel operator - chemical processing
- petroleum process operator
- pharmaceutical processing operator
- pipeline compressor station operator
- process technician - chemical processing
- refinery process technician

*Exclusion(s)*

- Chemical plant machine operators (see 9421 Chemical plant machine operators)
- Supervisors, petroleum, gas and chemical processing and utilities (see 9212 Supervisors, petroleum, gas and chemical processing and utilities)

*Main duties*

Central control and process operators in petroleum, gas and chemical processing perform some or all of the following duties:

- Operate electronic or computerized control panel from a central control room to monitor and optimize physical and chemical processes for several processing units
- Control process start-up, shut-down and troubleshooting
- Monitor outside process equipment
- Adjust equipment, valves, pumps and controls and process equipment
- Authorize or co-sign maintenance work orders
- Shut down, isolate and prepare process units or production equipment for maintenance
- Sample products, perform tests, record data, carry out statistical process control on process operations, and write production logs
- Develop operating procedures for normal operation, start-up or shut-down of unit
- Participate in safety audits and programs and provide emergency response when required
- Ensure adherence to safety and environmental regulations
- May rotate between different processing units during shift cycles
- May work in a team with shared supervisory responsibilities and participate in training other workers
- May be cross-trained in a skilled trade and work in the trade during shift cycles.

*Employment requirements*

- A college diploma in process operation, sciences or a related subject may be required for some positions.

- A provincial power engineer licence, compressor operator or refrigeration certificate may be required when certain kinds of equipment are included in the process.
- Certification in the transportation of dangerous goods (TDG), first aid, firefighting, or workplace hazardous materials information system (WHMIS) may be required.
- Company certification as a petroleum process operator or technician may be required.
- Completion of secondary school is required.
- Experience as a petroleum or chemical process operator in all the operating units controlled by the central control room is required for chief operators.
- Petroleum and chemical process operators and process technicians require completion of several years of formal company training.

*Additional information*

- Mobility to other petroleum or chemical processing plants is possible, but may be limited by the usual practice of training and promoting workers from within the establishment.
- Personal protective equipment may be required for occupations in this unit group that may involve exposure to hazards of toxic, flammable or explosive chemicals.
- Progression to supervisory or managerial positions is possible with experience.
- There is considerable mobility among jobs within a company, often as part of a formal development or training program.

## 9235 Pulping, papermaking and coating control operators

Pulping, papermaking and coating control operators operate and monitor multi-function process control machinery and equipment to control the processing of wood, scrap pulp, recyclable paper, cellulose materials, paper pulp and paperboard. They are employed by pulp and paper companies.

*Illustrative example(s)*

- bleach plant operator - pulp and paper
- panelboard operator - pulp and paper
- paper machine control operator
- pulping control operator
- pulping group operator - pulp and paper
- pulping technician

*Exclusion(s)*

- Papermaking and finishing machine operators (see 9433 Papermaking and finishing machine operators)
- Pulp mill machine operators (see 9432 Pulp mill machine operators)
- Supervisors, forest products processing (see 9215 Supervisors, forest products processing)

*Main duties*

Pulping, papermaking and coating control operators perform some or all of the following duties:

- Operate, co-ordinate and monitor pulping, papermaking and papercoating process equipment from central control room or machine consoles and control panels in equipment cabins to control process operations and machinery in the production of pulp and paper
- Control the processing of wood, scrap pulp, recyclable paper, cellulose materials, pulp paper and paperboard and monitor the chemical and physical process operations using a distributed control system and process computers
- Observe panel indicators, gauges, video monitors and other instruments to detect equipment malfunctions and ensure pulping, papermaking and coating processes are operating according to process specifications
- Analyze instrument readings and production test samples and make adjustments or direct other pulp mill, papermaking and finishing machine operators to make adjustments to pulp production, papermaking and coating process and equipment as required
- Complete and maintain production reports.

*Employment requirements*

- A certificate in industrial first aid may be required.

- A college or other program in forest products processing or a related subject may be required for pulping control operators.
- A competency certificate in natural gas may be required.
- Completion of secondary school is usually required.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Several years of experience as a pulp mill, papermaking or finishing machine operator within the same company is usually required.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is limited mobility among jobs within this unit group.

## 924 Utilities equipment operators and controllers

This minor group includes power engineers and power systems operators; and water and waste treatment plant operators. They are employed by power generation plants, electrical power utilities, manufacturing plants, hospitals, universities and government and commercial establishments; and municipal governments, industrial facilities, composting plants and other waste management facilities.

## 9241 Power engineers and power systems operators

Power engineers operate and maintain reactors, turbines, boilers, generators, stationary engines and auxiliary equipment to generate electrical power and to provide heat, light, refrigeration and other utility services for commercial, institutional and industrial plants and facilities. Power systems operators monitor and operate switchboards and related equipment in electrical control centres to control the distribution of electrical power in transmission networks. They are employed by power generation plants, electrical power utilities, manufacturing plants, hospitals, universities and government and commercial establishments.

*Illustrative example(s)*

- apprentice power dispatcher
- auxiliary plant operator
- building systems technician
- control room operator - electrical power systems
- distribution control operator - electrical power systems
- electrical power systems operator
- energy from waste plant operator
- nuclear generating station field operator
- nuclear reactor operator
- nuclear reactor operator - electrical power systems
- power dispatcher - generating station
- power engineer
- power plant operator
- power plant stationary engineer
- stationary engineer
- system controller - electrical power systems

*Exclusion(s)*

- Nuclear power station equipment mechanics (see 7311 Construction millwrights and industrial mechanics)
- Professional engineers (see 213 Civil, mechanical, electrical and chemical engineers)
- Professional engineers (see 214 Other engineers)
- Supervisors of power engineers and power systems operators (see 9212 Supervisors, petroleum, gas and chemical processing and utilities)

*Main duties*

Power engineers perform some or all of the following duties:

- Operate automated or computerized control systems, stationary engines and auxiliary equipment such as reactors, boilers, turbines, generators, pumps, compressors, pollution control devices and other equipment to generate electrical power and to provide light, heat, ventilation and refrigeration for buildings and industrial plants and facilities
- Start up and shut down power plant equipment, control switching operations, control water levels and communicate with systems operators to regulate and co-ordinate transmission loads, frequency and line voltages
- Monitor and inspect plant equipment, computer terminals, switches, valves, gauges, alarms, meters and other instruments to measure temperature, pressure, air and fuel flow and emissions to detect leaks or other equipment malfunctions and to ensure plant equipment is operating at maximum efficiency
- Analyze and record instrument readings and equipment malfunctions
- Troubleshoot and perform corrective action and minor repairs to prevent equipment or system failure
- Respond to emergency situations if required
- Clean and lubricate generators, turbines, pumps and compressors and perform other routine equipment maintenance duties using appropriate lubricants and hand, power and precision tools
- Maintain a daily log of operation, maintenance and safety activities, and write reports on plant operation and non-compliance
- May assist in the development of operation, maintenance and safety procedures.

Power systems operators perform some or all of the following duties:

- Operate and monitor computerized switchboards and auxiliary equipment in electrical control centres to control the distribution and to regulate the flow of electrical power in the transmission network
- Co-ordinate, schedule and direct generating station and substation power loads and line voltages to meet distribution demands during daily operations, system outages, repairs and importing or exporting of power
- Monitor and visually inspect station instruments, meters and alarms to ensure transmission voltages and line loadings are within prescribed limits and to detect equipment failure, line disturbances and outages
- Issue work and test permits to electrical and mechanical maintenance personnel, assist maintenance and technical personnel to locate and isolate system problems, and assist during routine system testing
- Complete and maintain station records, logs and reports.

*Employment requirements*

- Completion of secondary school is required.
- Control room operators at nuclear power plants require licensing from the Canadian Nuclear Safety Commission.
- Power engineers require a college training program in power engineering and several years of work experience.
- Power engineers require a provincial or territorial power engineering certificate according to class.
- Power systems operators require completion of a three- to five-year power system operator apprenticeship program or Over three years of work experience in the trade and some college or industry courses in electrical and electronic technology.
- Stationary engineer trade certification according to class is compulsory in Nova Scotia and Quebec and available, but voluntary in New Brunswick.
- Trade certification is available, but voluntary for power systems operators in Newfoundland and Labrador.

*Additional information*

- Progression from lower to higher classes for power or stationary engineers is dependent on further training and experience.
- Progression to supervisory positions is possible with experience.
- There is little mobility between nuclear power generation station operators and other classic or alternative power generation station operators.

## 9243 Water and waste treatment plant operators

Water treatment plant operators monitor and operate computerized control systems and related equipment in water filtration and treatment plants to regulate the treatment and distribution of water. Liquid waste plant operators monitor and operate computerized control systems and related equipment in wastewater, sewage treatment and liquid waste plants to regulate the treatment and disposal of sewage and wastes. They are employed by municipal governments and industrial facilities. This unit group also includes waste treatment plant operators in composting plants and other waste management facilities.

*Illustrative example(s)*

- environmental systems operator - water treatment
- liquid waste process operator
- sewage plant operator
- waste treatment plant operator
- wastewater treatment plant operator
- water filtration plant operator
- water purification plant operator
- water treatment plant operator

*Exclusion(s)*

- Chemical engineers (see 2134 Chemical engineers)
- Chemical technologists and technicians (see 2211 Chemical technologists and technicians)
- Supervisors, petroleum, gas and chemical processing and utilities (see 9212 Supervisors, petroleum, gas and chemical processing and utilities)
- Water and waste plant labourers (see 9613 Labourers in chemical products processing and utilities)
- Waterworks and gas maintenance workers (see 7442 Waterworks and gas maintenance workers)

*Main duties*

Water treatment plant operators perform some or all of the following duties:

- Operate and monitor computerized control systems and related equipment in water filtration and treatment plants to regulate the treatment and distribution of water
- Monitor and inspect plant equipment and systems to detect equipment malfunctions and to ensure plant systems are operating normally
- Read flow meters, gauges and other recording instruments to measure water output and consumption levels, bacterial content, chlorine and fluoride levels
- Collect and test water samples for chemical and bacterial content, analyze test results and instrument readings and make adjustments to plant equipment and systems to ensure quality control
- Provide verbal or written instructions for process control changes to waterworks system to ensure water produced meets standardized quality requirements
- Perform security checks in plant and on grounds
- Respond to public enquiries regarding water quality issues and emergencies
- Complete and maintain plant logs, reports and statistics
- May perform minor maintenance or assist skilled tradespersons with installation and repair of plant machinery
- May measure, mix and transport chemicals to maintain feed stocks.

Liquid waste plant operators perform some or all of the following duties:

- Operate and monitor computerized control systems and related equipment in wastewater treatment, sewage treatment and liquid waste plants to regulate the flow of sewage through settling, aeration and digestion tanks, and to treat and dispose of sewage and wastes
- Patrol plant to check pumps, motors, filters, chlorinators and other plant equipment; monitor and read gauges, meters and other recording instruments to detect equipment malfunctions and ensure plant systems and equipment are operating within prescribed limits
- Test and adjust chemical feed rates to ensure that disinfection processes meet quality standards
- Collect waste and sewage samples, test and analyze results and make adjustments to plant equipment and systems as required
- Perform security checks in plant and on grounds
- Complete and maintain plant logs and reports
- Perform preventive maintenance on plant equipment to ensure that the facility operates in accordance with required standards
- May assist skilled tradespersons with installation and repair of plant machinery.

*Employment requirements*

- Certification in wastewater collection and wastewater treatment (level according to the classification of the plant) is required for wastewater treatment plant operators.
- Certification in water treatment and distribution (level according to the classification of the plant) is required for water treatment plant operators.
- Certification in workplace hazardous materials information system (WHMIS), transportation of dangerous goods (TDG), and courses in safety practices may be required.
- College or industry training courses in chemistry, pollution control or related subjects are usually required.
- Completion of secondary school is usually required.
- Drinking water certification is required in Quebec and Ontario for operators whose work involves water treatment and distribution.
- On-the-job training is provided.
- Previous experience as a worker in the water treatment or wastewater field may be required.
- Solid waste, landfill or compost facility operator certification may be required for operators in waste treatment plants.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is limited mobility between water treatment plant and waste plant operators.

## 94 Processing and manufacturing machine operators and related production workers

This major group comprises occupations in processing and manufacturing machine operation and related production work which usually require completion of secondary school and experience or on-the-job training. It includes machine operators and related workers in mineral and metal products processing and manufacturing; chemical, plastic and rubber processing; pulp and paper production and wood processing and manufacturing; textile, fabric, fur and leather products processing and manufacturing; food, beverage and associated products processing; and printing equipment operators and related occupations.

## 941 Machine operators and related workers in mineral and metal products processing and manufacturing

This minor group includes machine operators in mineral and metal processing; foundry workers; glass forming and finishing machine operators and glass cutters; concrete, clay and stone forming operators; inspectors and testers in mineral and metal processing; metalworking and forging machine operators; machining tool operators; and other metal products machine operators. They are employed by mineral ore and metal processing plants and cement processing plants; metal foundries and foundry departments of metal products manufacturing companies; glass and glass products manufacturing companies; concrete, clay and stone products manufacturing companies; sheet metal products manufacturing companies, sheet metal shops and other light metal products manufacturing establishments; structural steel fabrication, boiler and platework manufacturing companies and heavy machinery manufacturing companies; metal products and other manufacturing companies and machine shops; and in the shipbuilding, fabricated metal products, machinery and transportation equipment manufacturing industries.

### 9411 Machine operators, mineral and metal processing

Workers in this unit group operate machinery to process mineral ore and metal. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries and cement processing plants.

*Illustrative example(s)*

- aluminum classifier
- asbestos dryer
- billet heater
- brick and tile crusher operator
- cement miller
- extrusion press operator

- foil-winding machine operator
- ladle pourer
- lead refiner
- lime kiln operator
- mica sheet laminator
- quenching car operator
- scrap metal shredder
- sintering machine operator
- slurry equipment operator
- steel roller
- uranium classifier operator
- zinc cell operator

*Exclusion(s)*
- Central control and process operators, mineral and metal processing (see 9231 Central control and process operators, mineral and metal processing)
- Concrete, clay and stone forming operators (see 9414 Concrete, clay and stone forming operators)
- Foundry workers (see 9412 Foundry workers)
- Glass forming and finishing machine operators and glass cutters (see 9413 Glass forming and finishing machine operators and glass cutters)
- Inspectors and testers, mineral and metal processing (see 9415 Inspectors and testers, mineral and metal processing)
- Labourers in mineral and metal processing (see 9611 Labourers in mineral and metal processing)
- Supervisors, mineral and metal processing (see 9211 Supervisors, mineral and metal processing)

*Main duties*

Machine operators, mineral and metal processing, perform some or all of the following duties:
- Set up, prepare and adjust mineral ore, metal and cement processing machinery to carry out one step in the overall mineral ore or metal processing operation
- Operate single-function machinery to grind, separate, filter, mix, treat, cast, roll, refine or otherwise process mineral ores
- Observe gauges, meters, computer printouts, video monitors and products to ensure correct operation of machinery and verify processing conditions
- Make adjustments to machinery as required
- Record production information and complete reports
- May assist with machinery maintenance or repair.

*Employment requirements*
- Completion of secondary school may be required.
- Experience as a labourer in mineral and metal processing is usually required for machine operators.
- On-the-job training is provided.

*Additional information*
- There is little mobility among the various types of machine operators within the mineral and metal processing industry.
- With experience, machine operators may progress to central control and process operators in mineral and metal processing.

## 9412 Foundry workers

This unit group includes workers who make foundry moulds and cores by hand or machine, cast molten metal, and operate furnaces in the foundry industry. They are employed by metal foundries and foundry departments of metal products manufacturing companies.

*Illustrative example(s)*
- bench moulder

- casting machine operator
- ceramic mouldmaker
- die-casting machine operator
- foundry worker
- furnace operator - foundry
- machine coremaker
- manual moulder
- melter - foundry
- metal caster
- pit moulder
- sand coremaker
- sand moulder

*Exclusion(s)*

- Foundry labourers (see 9611 Labourers in mineral and metal processing)
- Furnace operators who convert and refine primary metals, and operators of continuous casting processes (see 9231 Central control and process operators, mineral and metal processing)
- Supervisors of foundry workers (see 9211 Supervisors, mineral and metal processing)

*Main duties*

The following is a summary of the main duties for some occupations in this unit group:

- Manual mouldmakers make and repair sand moulds using patterns, moulding boxes, sand and hand tools following bench, floor or pit moulding methods; operate ovens to dry moulds; may pour molten metal into moulds to produce metal castings.
- Manual coremakers make cores for use inside moulds to form holes or void spaces in castings using core boxes, sand, hammer and wire or other reinforcing material; coat cores with protective materials and bake cores in oven.
- Machine mouldmakers and coremakers set up, adjust and operate various mouldmaking and coremaking machines to make sand and ceramics moulds and cores.
- Metal casters set up and operate various casting machines to cast ferrous and non-ferrous metal products; hand ladle and pour molten metal into moulds to produce castings.
- Foundry furnace operators operate furnaces used to melt metals for moulding and casting.

*Employment requirements*

- Completion of secondary school may be required.
- Up to two years of on-the-job training are required for manual mouldmakers; several months of on-the-job training are required for other workers in this unit group.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is some mobility between workers in this unit group.

## 9413 Glass forming and finishing machine operators and glass cutters

Machine operators in this unit group operate multi-function process control machinery or single-function machines to melt, form, cut or finish flat glass, glassware, bottles, and other glass products. Glass cutters cut flat glass of various thicknesses to specified sizes and shapes by hand. They are employed by glass and glass products manufacturing companies.

*Illustrative example(s)*

- bottle machine operator - glass products manufacturing
- float operator - glass forming
- glass beveller
- glass edger
- glass moulder
- glass-blowing machine operator

- glass-finishing machine operator
- glass-pressing machine operator
- hand glass cutter
- mirror maker

*Exclusion(s)*

- Glass blowers (see 5244 Artisans and craftspersons)
- Glaziers (see 7292 Glaziers)
- Helpers and labourers in glass products manufacturing (see 9611 Labourers in mineral and metal processing)
- Neon sign makers (see 9524 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing)
- Production inspectors in glass products manufacturing (see 9415 Inspectors and testers, mineral and metal processing)
- Supervisors of workers in this unit group (see 9211 Supervisors, mineral and metal processing)

*Main duties*

Glass process control operators perform some or all of the following duties:

- Operate multi-function process control machinery through control panels, computer terminals or other control systems to mix and melt raw materials; heat, anneal, temper or form float glass or glass products; and coat glass with silver or other metals and materials
- Observe gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments as necessary
- Maintain shift log of production and other data
- May operate process control machinery to cut glass or assemble glass window units
- May clean and maintain process machinery
- May ensure adequate levels of oil, soap, talc or other materials used in machine production of glass.

Glass forming machine operators perform some or all of the following duties:

- Set up and adjust automatic glass feeding, flowing and forming machines
- Operate and maintain machines that press or blow molten glass in moulds to form or shape containers, such as bottles, jars and drinking glasses
- Operate electric kilns that heat glass sheets and mould to the shape and curve of metal jigs
- Spray or swab moulds with oil solutions to prevent adhesion of glass
- Weigh, measure and check production samples to assess conformance to specifications using scales and gauges and by visual verification.

Glass finishing machine operators perform some or all of the following duties:

- Set up and adjust glass and glass-product finishing machines
- Operate and maintain finishing machines to grind, drill, sand, bevel, decorate, wash or polish glass or glass products
- Visually inspect products for quality
- Record manufacturing information such as quantity, size and type of goods produced.

Glass cutters perform some or all of the following duties:

- Jig, measure and mark glass or place pattern on or under glass for cutting
- Examine and mark defective glass to obtain best cut
- Cut glass along marked outlines or around pattern using hand tools
- Smooth rough edges using belt sander or smoothing wheels
- Set up, operate and adjust computerized or robotic glass cutting equipment
- Monitor process for product quality.

*Employment requirements*

- Experience as a glass cutter helper is usually required for manual glass cutters.
- Experience as a machine operator helper in glass manufacturing is usually required for machine operators in this unit group.
- Some secondary school education may be required.

*Additional information*

- Mobility is possible among the various types of machine operators in this unit group.
- Progression to supervisory positions is possible with experience.

## 9414 Concrete, clay and stone forming operators

This unit group includes workers who cast and finish concrete products, operate machines to extrude, mould, press and bake clay products, and operate machines to form, cut and finish stone products. They are employed by concrete, clay and stone products manufacturing companies.

*Illustrative example(s)*

- asbestos shingle presser
- brick presser operator
- clay press operator
- clay products moulder
- concrete block maker
- finisher - concrete, clay and stone products
- granite cutter
- marble cutter
- precast concrete moulder
- precast concrete slab maker
- stone driller
- stone planer
- stonework moulder

*Exclusion(s)*

- Concrete finishers (see 7282 Concrete finishers)
- Helpers and labourers in concrete, clay and stone products manufacturing (see 9611 Labourers in mineral and metal processing)
- Inspectors of concrete, clay and stone products (see 9415 Inspectors and testers, mineral and metal processing)
- Sculptors (see 5136 Painters, sculptors and other visual artists)
- Stone carvers and potters (see 5244 Artisans and craftspersons)
- Stone masons (see 7281 Bricklayers)
- Supervisors of workers in this unit group (see 9211 Supervisors, mineral and metal processing)

*Main duties*

Concrete products forming and finishing workers perform some or all of the following duties:

- Construct clay models and moulds by hand and with hand tools for use in casting concrete products
- Build and repair wooden forms used to mould concrete products
- Position reinforcing rods or wire mesh in moulds and fill moulds with concrete from suspended pouring buckets
- Start vibrating tables to settle concrete, or tamp concrete using electric vibrator
- Remove castings from mould with crane or forklift, and finish surfaces of castings using screed or trowel
- Cut cured concrete pipe sections with saw or chisel, and cement sections together to form odd shaped fittings.

Concrete products machine operators perform some or all of the following duties:

- Set up, adjust and operate single-function machines to mix, drill, grind and cut concrete to specifications in the manufacture of concrete products
- Check products for quality control, repair flaws and perform ongoing machine adjustments and minor maintenance as necessary
- Move products using forklift, crane or hydraulic hoist
- Record manufacturing information such as quantity, size and type of goods produced.

Clay products forming and finishing machine operators perform some or all of the following duties:

- Set up and operate automatic machines that mix ingredients, extrude tempered clay mixture and cut extruded clay into sections to make products such as bricks, drain tiles and porcelain insulators
- Operate mechanical or hydraulic ram and hot-presses to form pottery and porcelain ware
- Prepare and mix slip and fill moulds with slip to form pottery and porcelain ware such as jugs, cups, sinks and toilet bowls
- Operate kiln to bake clay products to specified hardness.

Stone forming and finishing workers perform some or all of the following duties:

- Operate blade or wire saws to cut blocks of stone to specified dimensions
- Operate machines to grind and polish surfaces of stone blocks, slabs or other stone products to specific shape or design and to produce smooth finish
- Operate sandblasting equipment to cut inscriptions or decorative designs in stone monuments
- Finish stone products with spray paint and by mounting plaques or installing concrete bases
- Operate stone-dressing lathe to sharpen and dress grindstones that grind logs into pulp
- Operate machine to drill holes in blocks or slabs of stone according to specifications.

*Employment requirements*

- Completion of secondary school is usually required.
- Experience as a helper or labourer in concrete, clay or stone products manufacturing may be required.
- Mould makers in this unit group who construct and repair wooden forms may require some carpentry or woodworking experience.
- On-the-job training is provided.

*Additional information*

- Mobility is possible between workers within each of the concrete, clay and stone manufacturing sectors, but there is little or no mobility between these manufacturing sectors.
- Progression to supervisory positions is possible with experience.

## 9415 Inspectors and testers, mineral and metal processing

Inspectors and testers in this unit group inspect, grade, sample or test raw materials and products from mineral ore and metal processing operations. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

*Illustrative example(s)*

- asbestos grader
- brick and tile inspector
- castings tester - primary metal and mineral products processing
- clay products grader
- core tester - foundry
- fibreglass tester
- glass quality control inspector
- heat treating inspector - metal processing
- metal processing inspector
- mineral sampler - mineral products processing
- molten metal sampler - primary metal processing
- salvage glass inspector
- sheet steel inspector - primary metal processing
- steel tester - primary metal processing

*Exclusion(s)*

- Central control and process operators, mineral and metal processing (see 9231 Central control and process operators, mineral and metal processing)
- Machine operators, mineral and metal processing (see 9411 Machine operators, mineral and metal processing)

- Metallurgical control analysts and mineralogical assayers (see 2212 Geological and mineral technologists and technicians)
- Non-destructive testers and inspection technicians (see 2261 Non-destructive testers and inspection technicians)
- Quality control technologists and technicians (chemical) (see 2211 Chemical technologists and technicians)
- Supervisors, mineral and metal processing (see 9211 Supervisors, mineral and metal processing)

*Main duties*

Inspectors and testers perform some or all of the following duties:

- Inspect mineral ore, metal, cement, glass, clay or concrete products at various stages of processing to ensure adherence to specifications
- Grade and label raw materials or finished products according to size, thickness, composition or other classification standards
- Take samples of products during or after processing operation for routine analysis or for subsequent laboratory analysis
- Test product for strength, density, durability and conformance to specifications
- Advise supervisor or central control operator and process machine operators of problems and product deficiencies
- Complete inspection and test reports.

*Employment requirements*

- Completion of secondary school education may be required.
- Experience as a machine or process operator in mineral and metal processing is usually required.

## 9416 Metalworking and forging machine operators

Light metalworking machine operators operate metalworking machines which shape and form sheet or other light metal into parts or products. Heavy metalworking machine operators operate metalworking machines which shape and form steel or other heavy metal into parts or products. Forging machine operators operate forging machines to form and shape metal into various shapes and sizes and impart desired strength, hardness or other characteristics. Light metalworking machine operators are employed by sheet metal products manufacturing companies, sheet metal shops and other light metal products manufacturing establishments. Heavy metalworking machine operators are employed by structural steel fabrication, boiler and platework manufacturing companies, heavy machinery manufacturing companies and in the shipbuilding industry. Forging machine operators are employed primarily in the fabricated metal products, machinery and transportation equipment manufacturing industries.

*Illustrative example(s)*

- bending press operator - metal fabrication
- cold press operator - metal forging
- disk flange operator - metal fabrication
- drop hammer operator - metal forging
- electric arc cutter - metal products manufacturing
- forging press operator
- metal-forming machine set-up operator
- metalworking machine operator
- power brake operator - metal fabrication
- power press operator - metal fabrication
- punch press setter - metalworking
- roll operator - metal fabrication
- saw operator - metal fabrication
- shear setter - metal fabrication
- sheet metal roll operator - metal fabrication

*Exclusion(s)*

- Sheet metal workers (see 7233 Sheet metal workers)

- Structural metal and platework fabricators and fitters (see 7235 Structural metal and platework fabricators and fitters)
- Supervisors of metalworking machine operators (see 9226 Supervisors, other mechanical and metal products manufacturing)

*Main duties*

Metalworking machine operators perform some or all of the following duties:

- Read specifications or follow verbal instructions
- Lay out, set up and operate one or more light or heavy metalworking machines such as shears, power presses, saws, plate rolls, drills, brakes, slitters, punch presses, computer numerically controlled (CNC) equipment, and other hand tools to cut, bend, roll, ream, punch and drill, weld or otherwise shape and form metal stock into parts or products
- Operate machines or equipment which weld, solder, bolt, screw or rivet metal parts together
- Check products for correct shapes, dimensions and other specifications
- Troubleshoot and perform corrective action or minor repairs
- May select and transport material to work area manually or using crane or hoist
- May document work completed
- May build staging or erect scaffolding as required for heavy metalworking jobs
- May clean or lubricate equipment and replace parts as required.

Forging machine operators perform some or all of the following duties:

- Operate gas or oil fired furnaces to heat metal to proper temperature prior to forging
- Place metal pieces in furnace using hand tongs or overhead cranes and remove from furnace when colour of metal indicates proper forging temperature, or load and unload furnace with automatic conveyor
- Position heated or cold metal pieces, on die of press or other forging machinery
- Operate presses or other forging machines to perform hot or cold forging by flattening, straightening, twisting, forming, drawing, upsetting, splitting, cutting, punching, piercing, bending, coining, or other operations to shape or form metal
- Position and adjust dies on anvil of forging machinery using overhead cranes or other hoisting devices and hand tools.

*Employment requirements*

- On-the-job training is usually provided.
- Previous experience as a labourer or helper in the same company may be required.
- Some secondary school education is required.

*Additional information*

- Progression to blacksmith, die setting, or supervisory positions is possible with experience for forging machine operators.
- Progression to structural metal fabricator or supervisory positions is possible with experience for metalworking machine operators.
- There is little or no mobility between operators of light and heavy metalworking machines.

## 9417 Machining tool operators

Machining tool operators set up and operate or tend metal-cutting machines designed for repetitive machining work. They are employed by metal products and other manufacturing companies and in machine shops. This unit group also includes workers who etch or chemically mill metal pieces.

*Illustrative example(s)*

- aircraft parts etcher
- boring mill operator - metal machining
- CNC machining tool operator
- lathe machining operator
- machining tool operator
- milling machine set-up operator
- production gear cutter

- production grinder operator - metal machining
- radial drill operator - metal machining

*Exclusion(s)*

- CAD/CAM and CNC programmers (see 2233 Industrial engineering and manufacturing technologists and technicians)
- Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations (see 7201 Contractors and supervisors, machining, metal forming, shaping and erecting trades and related occupations)
- Machinists and machining and tooling inspectors (see 7231 Machinists and machining and tooling inspectors)
- Tool and die makers (see 7232 Tool and die makers)

*Main duties*

Machining tool operators perform some or all of the following duties:

- Study job orders and interpret blueprints to determine machining operations to be performed
- Set up and operate machine tools to perform repetitive machining operations, such as turning, milling, drilling, boring, planing, honing, broaching, grinding or other machining operations
- Verify dimensions of parts machined using micrometers, callipers and other precision measuring instruments
- Prepare etching solution and immerse metal parts or workpiece in etching solution to remove unwanted portions
- Perform routine maintenance on equipment and machinery
- May enter codes specifying speed, feed and cut of the toolpath for computer numerical controlled (CNC) machine tools.

*Employment requirements*

- College or other courses in machining may be required.
- Senior positions in this unit group, such as set-up operator, require experience as a machine operator.
- Several months of on-the-job training are provided.
- Some secondary school education is usually required.

*Additional information*

- Experienced machining tool operators may become machinists or tool and die makers through apprenticeship training.

## 9418 Other metal products machine operators

This unit group includes metal products machine operators, not elsewhere classified, who operate one or more automatic or multi-purpose machines to produce a variety of metal parts and products, such as wire mesh, nails, bolts and chains. They are employed by a wide variety of metal products manufacturing companies.

*Illustrative example(s)*

- bolt machine operator
- bullet maker
- can-forming machine operator
- chain-making machine operator
- metal cable maker operator
- nail making machine tender
- spring machine operator
- wire screen maker
- wire weaver

*Exclusion(s)*

- Machining tool operators (see 9417 Machining tool operators)
- Metalworking and forging machine operators (see 9416 Metalworking and forging machine operators)

- Supervisors of machine operators in this unit group (see 9226 Supervisors, other mechanical and metal products manufacturing)

*Main duties*

Machine operators in this unit group perform some or all of the following duties:

- Operate or tend automatic or multi-purpose machines including wire looms to produce metal parts and metal products such as wire screening, fencing, tinware, metal baskets, racks, hooks, metal tubing and similar articles
- Fit and assemble components using hand and power tools
- Clean, polish, file or otherwise finish products
- Check products for quality and other specifications
- May clean and lubricate machinery.

*Employment requirements*

- Completion of secondary school is usually required.
- Experience as a labourer in the same company may be required.
- On-the-job training is provided.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is some mobility among machine operators in this unit group.

## 942 Machine operators and related workers in chemical, plastic and rubber processing

This minor group includes chemical plant machine operators; plastics processing machine operators; and rubber processing machine operators and related workers. They are employed in chemical, cleaning compound, ink and adhesive industries; by chemical processing departments in other industries; plastic products manufacturing companies; and tire manufacturers and other rubber products manufacturing companies.

### 9421 Chemical plant machine operators

Chemical plant machine operators monitor and operate units and machinery to blend, mix, process and package a wide range of specialty chemicals, pharmaceuticals, cleaning and toiletry products. They are primarily employed in chemical, cleaning compound, ink and adhesive industries, but may also be employed by chemical processing departments in other industries.

*Illustrative example(s)*

- batch mixer - chemical processing
- blender - chemical processing
- capsule machine operator
- evaporator operator - chemical processing
- formulations blender operator
- glue blender
- granulator machine operator
- mixer - chemical processing
- screener - chemical processing
- soap maker

*Exclusion(s)*

- Petroleum, gas and chemical process operators (see 9232 Central control and process operators, petroleum, gas and chemical processing)
- Supervisors, petroleum, gas and chemical processing and utilities (see 9212 Supervisors, petroleum, gas and chemical processing and utilities)

*Main duties*

Chemical plant machine operators perform some or all of the following duties:

- Monitor meters, gauges and electronic instrumentation on one or more chemical or formulation units, such as mixers, kettles, blenders, dryers, tabletting, encapsulation, granulation and coating machines
- Measure, weigh and load chemical ingredients following formulation cards
- Start up, shut down, troubleshoot and clean equipment
- Adjust processing machines and equipment
- Monitor reaction processes and transfers of products in conformance with safety procedures
- Take samples and perform routine chemical and physical tests of products
- Record production data
- May operate equipment from a control room or from control consoles located near the production units.

*Employment requirements*

- Certification in the transportation of dangerous goods (TDG), first aid, firefighting or workplace hazardous materials information system (WHMIS) may be required for some occupations in this unit group.
- Completion of more than one year of formal and informal company training may be required for some operators working in pharmaceutical, explosives and agricultural chemical or in specialty chemical plants.
- Completion of several months to one year of informal, on-the-job training within the company is required for most mixer and blender operators.
- For all operators in this unit group, completion of secondary school is usually required.
- Previous experience in chemical products processing as an assistant, labourer or helper may be required for some occupations in this unit group.

*Additional information*

- Mobility between employers producing similar products is possible for some of the more skilled operators in this unit group.
- Personal protective equipment may be required when working with some types of chemicals or pharmaceuticals.
- Progression to supervisory positions or to process control occupations is possible with experience.

## 9422 Plastics processing machine operators

Plastics processing machine operators set up and operate plastic mixing, calendering, extruding and moulding processing machines used in the manufacture of plastic parts and plastic products. They are employed by plastic products manufacturing companies.

*Illustrative example(s)*

- bag machine operator
- banbury operator - plastic manufacturing
- blow moulding machine operator - plastic manufacturing
- calender operator - plastic manufacturing
- extruder operator - plastic manufacturing
- injection moulding operator - plastic manufacturing
- plastics press operator
- printing roller moulder - plastic manufacturing
- solution mixer operator - plastic manufacturing
- thermoforming operator

*Exclusion(s)*

- Labourers in rubber and plastic products manufacturing (see 9615 Labourers in rubber and plastic products manufacturing)
- Plastic products assemblers, finishers and inspectors (see 9535 Plastic products assemblers, finishers and inspectors)
- Rubber processing machine operators and related workers (see 9423 Rubber processing machine operators and related workers)
- Supervisors, plastic and rubber products manufacturing (see 9214 Supervisors, plastic and rubber products manufacturing)

*Main duties*

Mixing machine operators perform some or all of the following duties:

- Weigh resins, colorants and other chemicals according to formula
- Place weighed materials in mixing machine and operate machine to blend plastic and other chemicals to a specified consistency or viscosity
- Monitor operation, regulate material supply and add chemicals and colorants to mixture
- Operate controls to regulate temperature, speed and other processing conditions
- Unload mixture into container or conveyor for further processing
- Maintain and perform minor repairs on machinery as required
- Maintain inventory of material and clean working area.

Calendering process operators perform some or all of the following duties:

- Set up and operate calendering machines which transform dough-consistent plastic mass into continuous sheets or films of specified thickness
- Troubleshoot, maintain and make minor repairs to equipment and adjust calender rollers for production line change
- Monitor quality of material produced
- Maintain inventory of material and clean working area.

Extruding process operators perform some or all of the following duties:

- Set up and operate one or more extruding machines which extrude plastic composites products through a nozzle or die
- Change dies on extruding machines according to production line change
- Troubleshoot, maintain and make minor repairs to equipment
- Monitor quality of material produced
- Maintain inventory of material and clean working area.

Moulding process operators perform some or all of the following duties:

- Set up and operate one or more moulding machines which mould plastic products according to specifications
- Change moulds and adjust equipment for production line change
- Troubleshoot, maintain and make minor repairs to equipment
- Monitor quality of material produced and adjust machine settings as required
- Follow formulation card to mix ingredient batches for injection moulding process
- Maintain inventory of material and clean working area.

*Employment requirements*

- Completion of a statistical process control (SPC) course may be required.
- Completion of courses in hydraulics, pneumatics and electronics systems may be required for moulding process operators.
- Completion of secondary school may be required.
- On-the-job training is provided.
- Several years of experience as a helper, tender or packer in the same company may be required.

*Additional information*

- Mobility among the various operators in this unit is possible.
- Progression to supervisory positions is possible with experience.

## 9423 Rubber processing machine operators and related workers

Workers in this unit group operate rubber processing machinery and assemble and inspect rubber products. They are employed by tire manufacturers and other rubber products manufacturing companies.

*Illustrative example(s)*

- banbury operator - rubber products manufacturing
- blow-out and test operator - rubber products
- calender machine operator - rubber products manufacturing
- cure operator - rubber products manufacturing

- extruder operator - rubber products manufacturing
- inspector, rubber products manufacturing
- moulding press tender - rubber products manufacturing
- refiner mill tender - rubber products manufacturing
- rubber belt builder
- rubber hose builder
- rubber processing machine operator
- rubber products assembler
- scrap rubber grinder - recycling
- tire builder
- tire inspector

*Exclusion(s)*

- Labourers in rubber and plastic products manufacturing (see 9615 Labourers in rubber and plastic products manufacturing)
- Plastic products assemblers, finishers and inspectors (see 9535 Plastic products assemblers, finishers and inspectors)
- Plastics processing machine operators (see 9422 Plastics processing machine operators)
- Supervisors, plastic and rubber products manufacturing (see 9214 Supervisors, plastic and rubber products manufacturing)

*Main duties*

Rubber processing machine operators perform some or all of the following duties:

- Set up, operate and tend machinery used for mixing, calendering, extruding, moulding and curing rubber materials or rubber products
- Load or feed rubber, pigments, filler, oil and chemicals into machines
- Check and monitor processing conditions and product quality
- Adjust machines to proper setting as required
- Train or assist in training new workers.

Assemblers, rubber products perform some or all of the following duties:

- Lay out and prepare rubber materials for assembly
- Operate machines or equipment or use hand tools to cut, shape, splice, fit and cement rubber materials to form rubber parts or finished rubber products
- Operate finishing machines or equipment to trim, grind, or buff rubber products into final form
- Train or assist in training new workers.

Rubber products inspectors perform some or all of the following duties:

- Inspect finished rubber products for defects and conformance to specifications and quality standards, visually or using instruments
- Affix seals or tags to approved products and mark and reroute defective products for repair or recycle
- Fill out product inspection report
- May make minor adjustments or repairs to products.

*Employment requirements*

- Completion of secondary school is usually required.
- Experience as a labourer in the same company may be required.
- On-the-job training is provided.

*Additional information*

- Mobility among the various labourers in this unit group is possible.
- Progression to supervisory positions is possible with experience.

## 943 Machine operators and related workers in pulp and paper production and wood processing and manufacturing

This minor group includes sawmill machine operators; pulp mill machine operators; papermaking and finishing machine operators; other wood processing machine operators; paper converting machine operators; lumber graders and other wood processing inspectors and graders; and woodworking machine operators. They are employed by sawmills and planing mills; pulp and paper companies; woodrooms of pulp mills, wood treatment plants, waferboard plants and other wood processing plants; paper products manufacturing companies; and furniture, fixture and other wood products manufacturing establishments.

### 9431 Sawmill machine operators

Sawmill machine operators operate, monitor and control automated lumbermill equipment to saw timber logs into rough lumber; saw, trim and plane rough lumber into dressed lumber of various sizes; and saw or split shingles and shakes. They are employed in sawmills and planing mills.

*Illustrative example(s)*

- circular saw operator
- edgerman/woman
- head sawyer
- log cut-off operator
- planer operator
- resaw operator
- shake splitter
- trimmerman/woman

*Exclusion(s)*

- Labourers in wood, pulp and paper processing (see 9614 Labourers in wood, pulp and paper processing)
- Lumber graders and other wood processing inspectors and graders (see 9436 Lumber graders and other wood processing inspectors and graders)
- Other wood processing machine operators (see 9434 Other wood processing machine operators)
- Supervisors, forest products processing (see 9215 Supervisors, forest products processing)
- Woodworking machine operators (see 9437 Woodworking machine operators)

*Main duties*

Sawmill machine operators perform some or all of the following duties:

- Operate front-end loaders and stationary deck cranes to feed logs into the sawmill
- Examine logs and rough lumber to determine size, condition, quality and other characteristics to decide best lumber cuts to carry out, or use automated equipment to convey logs through laser scanners which determine the most productive and profitable cutting patterns
- Operate automated lumbermill from control rooms or consoles to saw logs into rough lumber; saw, trim and plane rough lumber into dressed lumber of various sizes; and saw or split shingles and shakes
- Start conveyor system to move logs and lumber to and from saws
- Set up and adjust saw equipment and replace blades or bands using wrenches, gauges and other hand tools
- Operate equipment to sort and stack lumber by length and thickness, move stacks to storage areas or drying kilns, and feed lumber through planers
- Monitor movement of lumber and computer screens to ensure cuts are made according to specifications, and print production reports
- Clean and lubricate sawmill equipment.

*Employment requirements*

- A certificate in industrial first aid may be required.
- College courses in wood processing technology may be required.
- Completion of secondary school is required.

- Head sawyers and planer operators usually require several years of experience in other sawmill machine operating positions in the same company.
- Several weeks of on-the-job training are usually provided.

*Additional information*
- Progression to supervisory positions is possible with experience.
- There is some mobility among jobs in this occupational group.

## 9432 Pulp mill machine operators

Pulp mill machine operators operate and monitor various types of processing machinery and equipment to produce pulp. They are employed by pulp and paper companies.

*Illustrative example(s)*
- assistant bleacher operator - pulp and paper
- assistant digester operator
- cook - pulp and paper
- cook's first helper - pulp and paper
- digester operator - pulp and paper
- field operator - pulp and paper
- grinderman/woman - pulp and paper
- refiner operator - pulp and paper
- repulper operator
- screenman/woman - pulp and paper
- thermomechanical pulp assistant operator
- thermomechanical pulp operator

*Exclusion(s)*
- Labourers in wood, pulp and paper processing (see 9614 Labourers in wood, pulp and paper processing)
- Pulping, papermaking and coating control operators (see 9235 Pulping, papermaking and coating control operators)
- Supervisors, forest products processing (see 9215 Supervisors, forest products processing)

*Main duties*

Pulp mill machine operators perform some or all of the following duties:
- Operate and monitor screening equipment, bleaching equipment, digesters, mixing tanks, washers, and other pulp processing machinery and equipment to carry out one or more cellulose processing steps
- Observe equipment and machinery panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications
- Communicate with pulping control operator to make process adjustments and start up or shut down machinery and equipment as required
- Collect processing samples and conduct titration tests, pH readings, specific density tests and other routine tests on pulp and solutions
- Complete and maintain production reports.

*Employment requirements*
- A certificate in industrial first aid may be required.
- A college diploma in forest products processing or a related subject may be required.
- Completion of secondary school is required.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Previous experience as a pulp mill labourer within the same company is usually required.

*Additional information*
- Progression to pulping control operator is possible with experience.

- There is limited mobility among jobs within this occupational group.

## 9433 Papermaking and finishing machine operators

Papermaking and finishing machine operators operate process machinery and equipment and assist papermaking and coating control operators to produce, coat and finish paper. They are employed by pulp and paper companies.

*Illustrative example(s)*
- assistant coating operator - pulp and paper
- balerman/woman - pulp and paper
- calender operator - pulp and paper
- embossing calender operator - pulp and paper
- fourth hand - pulp and paper
- graderman/woman - pulp and paper
- paper machine operator
- paper-coating machine operator
- sheeter operator - pulp and paper
- winderman/woman - pulp and paper

*Exclusion(s)*
- Labourers in wood, pulp and paper processing (see 9614 Labourers in wood, pulp and paper processing)
- Machine operators engaged in fabricating and assembling paper products (see 9435 Paper converting machine operators)
- Pulping, papermaking and coating control operators (see 9235 Pulping, papermaking and coating control operators)
- Supervisors, forest products processing (see 9215 Supervisors, forest products processing)

*Main duties*

Papermaking and finishing machine operators perform some or all of the following duties:
- Operate and monitor various papermaking and finishing process machinery and equipment to dry, calender, laminate, coat, slit, trim, wind or carry out other papermaking and finishing process steps
- Mount, position and thread paper rolls using a hoist
- Control process machinery using a distributed control system and process computers
- Observe equipment and machinery, panel indicators, gauges, level indicators and other equipment instruments to detect machinery and equipment malfunctions and ensure process steps are carried out according to specifications
- Communicate with and assist papermaking and coating control operators to make process adjustments and to start up or shut down process machines as required
- Inspect paper visually for wrinkles, holes, discolouration, streaks or other defects and take corrective action
- Complete and maintain production reports.

*Employment requirements*
- A certificate in industrial first aid may be required.
- A competency certificate in natural gas may be required.
- Completion of secondary school is usually required.
- Completion of several weeks of formal company training and several months of on-the-job training is required.
- Previous experience as a labourer within the same company is usually required.

*Additional information*
- Progression to papermaking and coating control operator occupations is possible with experience.
- There is limited mobility among jobs within this occupational group.

## 9434 Other wood processing machine operators

Machine operators in this unit group operate and tend wood processing equipment and machines to remove bark from logs, produce wood chips, preserve and treat wood, and produce waferboards, particleboards, hardboards, insulation boards, plywood, veneers and similar wood products. They are employed in sawmills, woodrooms of pulp mills, planing mills, wood treatment plants, waferboard plants and other wood processing plants.

*Illustrative example(s)*

- barker operator
- chipper operator
- lumber kiln operator
- particleboard line operator
- plywood panel assembler
- timber treating tank operator
- veneer dryer tender
- veneer lathe operator
- waferboard press operator
- wood treater

*Exclusion(s)*

- Labourers in wood, pulp and paper processing (see 9614 Labourers in wood, pulp and paper processing)
- Sawmill machine operators (see 9431 Sawmill machine operators)
- Supervisors, forest products processing (see 9215 Supervisors, forest products processing)

*Main duties*

Machine operators in this unit group perform some or all of the following duties:

- Operate and tend various wood processing equipment and machines to remove bark, knots and dirt from logs; reduce logs or sawmill waste into wood chips or flakes; stack and band lumber; screen wood chips; and produce waferboards, particleboards, hardboards and insulation boards
- Operate and tend conveyors, lathes, sanding machines and other equipment to peel and slice veneer from logs and log sections, and to glue, press, trim, sand and splice veneer sheets
- Operate and tend kilns, treating tanks and other equipment to dry lumber and other wood products, and to treat chemically and impregnate wood products with preservatives
- Observe equipment, panel indicators, video monitors, and other instruments to detect malfunctions and ensure that processes are operating according to specifications
- Assemble plywood panels and repair plywood and veneer mechanically or manually
- Start up, shut down, set up, adjust and assist in maintaining processing equipment and machines as required
- Complete and maintain production reports.

*Employment requirements*

- Completion of secondary school is required by the pulp and paper industry and other large employers.
- For lumber kiln operators, particleboard operators and waferboard operators, some combination of college or company courses and up to one year of on-the-job training may be required.
- Previous experience as a labourer in wood processing may be required.
- Several months of on-the-job training are provided.

*Additional information*

- Progression to other positions in the wood, pulp and paper industries is possible with experience.
- There is some mobility among jobs in this unit group.

## 9435 Paper converting machine operators

Paper converting machine operators operate various machines which fabricate and assemble paper products such as paper bags, containers, boxes, envelopes and similar articles. They are employed by paper products manufacturing companies.

*Illustrative example(s)*
- box maker operator
- carton forming machine operator
- core maker - paper converting
- envelope maker operator
- paper bag machine operator
- paper box machine operator

*Exclusion(s)*
- Papermaking and finishing machine operators (see 9433 Papermaking and finishing machine operators)
- Plateless printing equipment operators (see 9471 Plateless printing equipment operators)
- Printing press operators (see 7381 Printing press operators)

*Main duties*

Paper converting machine operators perform some or all of the following duties:
- Operate machines which cut, fold, glue or clip paper and cardboard to make boxes, corrugated cartons and other articles
- Operate machines which glue paper to cardboard and cut it into required lengths
- Operate machines which press paper to form drinking cups and other containers
- Operate machines which cut, glue and fold paper to make envelopes or paper bags
- Operate other paper converting machines to form products such as paper tubes, cards, paper towels or diapers
- Clean and lubricate machine and perform other routine machine maintenance
- Set up machines.

*Employment requirements*
- Completion of secondary school is usually required.
- Previous experience as a labourer within the same company may be required.
- Several weeks of on-the-job training are provided.

*Additional information*
- There is some mobility between jobs in this occupational group.

## 9436 Lumber graders and other wood processing inspectors and graders

Lumber graders and other wood processing inspectors and graders inspect and grade lumber, shingles, veneer, waferboard and similar wood products to identify defects, ensure conformance to company specifications and classify products according to industry standards. They are employed by sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

*Illustrative example(s)*
- grader - wood processing
- grader tallyman/woman - wood processing
- lumber grader
- particleboard grader - wood processing
- plywood grader
- plywood inspector
- veneer grader
- wood measurer

*Exclusion(s)*
- Forest products technologists (see 2211 Chemical technologists and technicians)
- Log scalers (see 2223 Forestry technologists and technicians)
- Production technologists in sawmills (see 2233 Industrial engineering and manufacturing technologists and technicians)
- Supervisors, forest products processing (see 9215 Supervisors, forest products processing)

*Main duties*

Lumber graders perform some or all of the following duties:

- Examine lumber visually for knots, holes, splits and other defects and sort for further drying, trimming or remanufacturing
- Measure lumber using callipers, gauges and tape measures to ensure specified thickness, length and width
- Classify and sort lumber according to industry standards and stamp lumber to indicate grade, wood type, moisture level and other characteristics
- Tally lumber
- Complete and maintain reports.

Other wood processing inspectors and graders perform some or all of the following duties:

- Inspect plywood panels, veneer sheets, panelboards, shingles and similar wood products visually for knots, holes, splits, straightness and other defects
- Mark defects and sort for repair or reprocessing
- Measure wood products to ensure conformance to specifications using standard measuring instruments
- Grade and label wood products according to quality standards
- Complete and maintain inspection and grading reports.

*Employment requirements*

- Lumber graders require a lumber grader's licence issued by a provincial lumber association.
- On-the-job training and up to two weeks of classroom training are provided for lumber graders.
- Previous experience as a sawmill machine operator, other wood processing operator or as a labourer in wood processing is usually required for graders and inspectors in this unit group.
- Some secondary school education is usually required.

*Additional information*

- There is some mobility between employers processing similar wood products.

## 9437 Woodworking machine operators

Woodworking machine operators set up, program and operate one or more woodworking machines to fabricate or repair wooden parts for furniture, fixtures or other wood products. They are employed in furniture, fixture and other wood products manufacturing establishments.

*Illustrative example(s)*

- boring machine operator - woodworking
- CNC (computer numerically controlled) band saw operator
- drill operator - woodworking
- drum sander - woodworking
- edge bander operator - woodworking
- glue machine operator - woodworking
- lathe operator - woodworking
- planer operator - woodworking
- rough mill operator - woodworking
- shaper - woodworking
- woodworking machine operator

*Exclusion(s)*

- Cabinetmakers (see 7272 Cabinetmakers)
- Carpenters (see 7271 Carpenters)
- Supervisors of woodworking machine operators (see 9224 Supervisors, furniture and fixtures manufacturing)

*Main duties*

Woodworking machine operators perform some or all of the following duties:

- Set up, program and operate one or more computer numerically controlled (CNC) or manual woodworking machines such as saws, moulders, lathes, routers, planers, edgers, pressing machines, shapers, drills and sanders to fabricate or repair wooden parts for furniture, fixtures and other wood products
- Operate gluing machines to glue pieces of wood together or press and affix wood veneer to wood surfaces
- Operate preset special-purpose woodworking machines to fabricate wood products such as coat hangers, mop handles, clothes pins and other products
- Read and interpret specifications or follow verbal instructions
- May clean and lubricate equipment, and replace parts as necessary.

*Employment requirements*

- Completion of secondary school may be required.
- Experience as a labourer in the same company may be required.
- On-the-job training is usually provided.

*Additional information*

- Mobility is common among jobs in this unit group.
- Progression to supervisory positions is possible with experience.

## 944 Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing

This minor group includes textile fibre and yarn, hide and pelt processing machine operators and workers; weavers, knitters and other fabric making occupations; fabric, fur and leather cutters; industrial sewing machine operators; and inspectors and graders, textile, fabric, fur and leather products manufacturing. They are employed by textile manufacturing companies; leather tanning, fur dressing and leather and fur dyeing establishments; garment and mattress manufacturing companies; clothing manufacturers and other manufacturers of fabric products; furriers and fur products manufacturers; shoe and other leather products manufacturers; and footwear and other manufacturing establishments.

### 9441 Textile fibre and yarn, hide and pelt processing machine operators and workers

Textile fibre and yarn processing machine operators and workers operate machines to prepare textile fibres; spin, wind or twist yarn or thread; and bleach, dye or finish yarn, thread, cloth or textile products. They are employed by textile manufacturing companies. Hide and pelt processing machine operators and workers trim, scrape, clean, tan, buff and dye animal hides, pelts or skins to produce leather stock and finished furs. They are employed by leather tanning, fur dressing and leather and fur dyeing establishments.

*Illustrative example(s)*

- autoclave tender - textile manufacturing
- bleaching range operator - textile manufacturing
- calender operator - textile manufacturing
- carding machine operator - textile manufacturing
- coater operator - textile manufacturing
- dyeing range operator - textile manufacturing
- fabric-printing machine operator
- finishing range operator - textile manufacturing
- leather buffer - hide and pelt processing
- leather stretcher - hide and pelt processing
- spinning operator - textile manufacturing
- tanner - hide and pelt processing
- twisting operator - textile manufacturing
- yarn doubler - textile manufacturing

*Exclusion(s)*

- Master dyers and textile colour technologists (see 2211 Chemical technologists and technicians)

- Supervisors, textile, fabric, fur and leather products processing and manufacturing (see 9217 Supervisors, textile, fabric, fur and leather products processing and manufacturing)

*Main duties*

Textile fibre and yarn processing machine operators and workers perform some or all of the following duties:

- Operate and feed machines that wash, mix, blend, pick, card, lap, comb or draw fibres and finish yarn
- Operate spinning, twisting, winding or reeling machines
- Operate a variety of machines to bleach, dye, coat or finish fabric, thread, yarn or other textile products
- Mix dyes or chemicals according to established formulas
- Operate machinery to print designs onto textile products
- Oversee work area, examine products for defects and ensure adherence to quality standards
- Investigate machine stoppages and notify supervisor or mechanic in the event of equipment malfunction
- May set up machines and assist with maintenance and minor repairs to machinery.

Hide and pelt processing machine operators and workers perform some or all of the following duties:

- Operate machines or use hand and powered cutting knives to remove unnecessary particles from hides, skins or pelts; shave or polish hides; and shear fur or wool hides to produce pelts with hair of specified or uniform lengths
- Prepare solutions according to pre-established formulas and immerse hides, skins or pelts to clean, dehair, pickle, dye, oil, tan, soften and preserve
- Adjust rotation and mixing action of vats according to state of pelts
- Tint or dye furs to enhance natural shades of fur
- May maintain and repair vats and other machinery.

*Employment requirements*

- On-the-job training is provided for periods up to several months, depending on the complexity of the process and the number of machines operated.
- On-the-job training is provided for periods up to several months, depending on the complexity of the product, whether equipment set-up and maintenance is done by the operator, and the number of machines operated.

*Additional information*

- Progression is possible within the group to operate more complex dye ranges and textile printing equipment.
- Progression to supervisory positions in textile processing usually requires completion of a college program in textiles, chemistry or a related subject.
- Progression to supervisory positions is possible with experience for fibre and yarn preparation machine operators and hide and pelt processing machine operators and workers.
- There is some mobility among jobs in this unit group.

## 9442 Weavers, knitters and other fabric making occupations

Operators in this unit group operate machines to process yarn or thread into woven, non-woven and knitted products such as cloth, lace, carpets, rope, industrial fabric, hosiery and knitted garments or to quilt and embroider fabric. This unit group also includes workers who perform activities such as reproducing patterns, drawing-in and tying warps and setting up looms. They are employed by textile companies and by garment and mattress manufacturing companies.

*Illustrative example(s)*

- carpet weaver
- drawer-in - textiles
- drawing-in machine operator
- embroidery machine operator
- hosiery knitter
- knitter - textiles
- knitting machine operator
- loom operator

- mattress sewing machine operator
- pinning machine operator
- quilting machine operator
- tufting operator
- warp knitting machine tender
- warp tier-in
- weaver - textiles

*Exclusion(s)*

- Craft weavers and knitters (see 5244 Artisans and craftspersons)
- Industrial sewing machine operators (see 9446 Industrial sewing machine operators)
- Supervisors, textile, fabric, fur and leather products processing and manufacturing (see 9217 Supervisors, textile, fabric, fur and leather products processing and manufacturing)
- Textile machinery mechanics (see 7311 Construction millwrights and industrial mechanics)

*Main duties*

Operators in this unit group perform some or all of the following duties:

- Set up looms or other processing machines
- Read loom patterns and prepare loom pattern mechanisms for processing
- Operate looms to weave yarn or thread into textile fabrics or products
- Operate machines that produce twine, ropes or nets
- Operate batteries of knitting machines to produce knitted fabric, hosiery, garments or other products
- Operate carpet tufting machines, felt making needle-punch machines and other machines to produce textile products
- Operate large automatic multi-needle machines to embroider material or to sew lengths of several layers of material to make yard goods, quilts or mattress coverings
- Patrol machines and check fabrics or products for defects and to verify efficient operation
- Investigate machine stoppages
- Repair minor mechanical problems such as broken or defective needles
- Notify supervisor or repairers of mechanical malfunctions.

*Employment requirements*

- Previous experience as a labourer in the same company may be required for some operators in this group.
- Some secondary school education is usually required.

*Additional information*

- Mobility among employers may be limited by differences in machines and products.
- Progression to textile machinery mechanics and repairers or to supervisory positions is possible with experience and training.

## 9445 Fabric, fur and leather cutters

Fabric cutters cut fabric to make parts for garments, linens and other articles. Fur cutters cut fur pelts to make parts for garments and other fur articles. Leather cutters cut leather to make parts for shoes, garments and other leather articles. Fabric cutters are employed by clothing and textile manufacturers and other manufacturers of fabric products. Fur cutters are employed by furriers and fur products manufacturers. Leather cutters are employed by shoe and other leather products manufacturers.

*Illustrative example(s)*

- clothing cutter
- fabric cutter
- fur cutter
- glove cutter
- leather cutter
- sample cutter
- shoe cutter

*Exclusion(s)*

- Shoe repairers and shoemakers (see 6343 Shoe repairers and shoemakers)
- Tailors, dressmakers, furriers and milliners (see 6342 Tailors, dressmakers, furriers and milliners)

*Main duties*

Fabric cutters perform some or all of the following duties:

- Place patterns on top of layers of fabric and cut fabric using electric or manual knives, cutters or computer numerically controlled (CNC) cutting devices
- Adjust cutting technique to type of fabric and style of garment
- May cut fabric samples.

Fur cutters perform some or all of the following duties:

- Cut fur skins in diagonal strips to specified length and shape of pelt using furrier's knives and cutters
- Number pelts to indicate their location on pattern
- May sort or match skins, and may prepare fur samples.

Leather cutters perform some or all of the following duties:

- Select leather and cutting dies for leather goods and shoe parts according to specifications
- Position leather on cutting bed of machine, maximizing usage according to skin grain, skin flaws and skin stretch
- Operate clicker or punch press to stretch leather
- Operate machine to cut leather or cut single leather skins by hand to make leather products
- May cut leather samples.

*Employment requirements*

- Experience as a fabric, fur or leather cutter is required for fabric, fur or leather sample cutters.
- Several years of on-the-job training are provided for fur cutters.
- Some on-the-job training is provided for occupations in this unit group.
- Some secondary school education is usually required.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is little mobility among the different kinds of cutters in this unit group.

### 9446 Industrial sewing machine operators

Industrial sewing machine operators operate sewing machines to sew fabric, fur, leather or synthetic materials to produce or repair garments and other articles. They are employed in clothing, footwear, textile products, fur products and other manufacturing establishments and by furriers.

*Illustrative example(s)*

- fur sewing machine operator
- leather products sewing machine operator
- lining stitcher
- sample sewer
- serging machine operator
- sewing machine operator
- shoe sewer

*Exclusion(s)*

- Fabric, fur and leather cutters (see 9445 Fabric, fur and leather cutters)
- Mattress sewing and embroidery machine operators (see 9442 Weavers, knitters and other fabric making occupations)
- Shoe repairers and shoemakers (see 6343 Shoe repairers and shoemakers)
- Supervisors of sewing machine operators (see 9217 Supervisors, textile, fabric, fur and leather products processing and manufacturing)
- Tailors, dressmakers, furriers and milliners (see 6342 Tailors, dressmakers, furriers and milliners)

*Main duties*

Industrial sewing machine operators perform some or all of the following duties:

- Assemble pieces of garments by matching patterns and dye lots
- Operate single, double or multi-needle serging, flat bed felling, banding and other sewing machines, to join sections of garments or other articles into finished products on a piece-work or production basis
- Operate fur sewing machines to join fur pelt strips to required size and shape and join pelts into garment sections or shells
- Operate stitching machines to sew leather parts together for leather garments, handbags, shoes and other leather articles
- Operate serging machines to sew and overcast edges of material simultaneously
- Operate tackers, pocketsetters, buttonhole makers and fusing, hemmer and other machines to perform various operations in the fabrication of garments and other articles
- Examine garments and operate sewing machines, sergers and other machines to repair garments and other articles during the manufacturing process
- Complete production reports
- May perform minor maintenance and repairs on sewing machine.

*Employment requirements*

- Experience operating a sewing machine is usually required.
- On-the-job training may be provided.
- Some secondary school education is usually required.

*Additional information*

- Industrial sewing machine operators may progress to supervisory positions with experience.

## 9447 Inspectors and graders, textile, fabric, fur and leather products manufacturing

Inspectors and graders in this unit group inspect and grade textile, fabric, fur and leather products. They are employed by textile companies, leather tanning and fur dressing establishments and garment, fur and leather products manufacturers.

*Illustrative example(s)*

- cloth inspector
- colour grader - textiles
- fabric examiner
- fibre inspector - textiles
- fur grader
- fur matcher - fur products manufacturing
- garment inspector
- hide and pelt processing inspector
- leather goods inspector
- leather grader
- quality control inspector - textiles
- shoe inspector
- textile grader
- textile product sampler
- yarn inspector

*Exclusion(s)*

- Supervisors, textile, fabric, fur and leather products processing and manufacturing (see 9217 Supervisors, textile, fabric, fur and leather products processing and manufacturing)

*Main duties*

Inspectors and graders in this unit group perform some or all of the following duties:

- Examine natural, synthetic and hybrid textile, fabric, fur and leather garments or products for conformity to quality standards

- Inspect and grade animal hides and pelts according to size, condition and weight
- Verify fit or size of finished garments and products by measuring or comparing products with samples and patterns
- Mark defects, repair minor imperfections, cut excess materiel using scissors, and remove lint and spots using brushes, lint removers and cleaning solutions
- Grade and sort finished products and tag according to size, style and quality
- Record information on products inspected
- May package products.

*Employment requirements*

- Completion of secondary school may be required.
- On-the-job training is provided.
- Work experience in the manufacturing of the products inspected is usually required.

*Additional information*

- There is limited mobility among the different inspectors and graders in this unit group.

## 946 Machine operators and related workers in food, beverage and associated products processing

This minor group includes process control and machine operators in food, beverage and associated products processing; industrial butchers and meat cutters, poulty preparers and related workers; fish and seafood plant workers; and testers and graders in food, beverage and associated products processing. They are employed by fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries, leaf tobacco products plants and other food, beverage and associated products processing establishments; meat and poultry slaughtering, processing and packing establishments; and fish and seafood processing plants.

## 9461 Process control and machine operators, food and beverage processing

Process control and machine operators in this unit group operate multi-function process control machinery and single-function machines to process and package food and beverage products. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries, and other food and beverage processing establishments.

*Illustrative example(s)*

- bakery machine operator - food and beverage processing
- brewhouse operator
- canning machine operator
- chocolate refiner
- cigarette machine tender
- citrus juice extractor
- control room operator - food and beverage processing
- corn sugar refinery operator
- dry foods mixer operator
- dryer tender - tobacco processing
- fermenter operator
- fruit preserver - food and beverage processing
- fryer operator - food and beverage processing
- grain-processing machine operator
- meat grinder - food and beverage processing
- pasteurizer operator - food and beverage processing
- tobacco blender
- winery-press operator

*Exclusion(s)*

- Bakers (see 6332 Bakers)

- Butchers, meat cutters and fishmongers - retail and wholesale (see 6331 Butchers, meat cutters and fishmongers - retail and wholesale)
- Fish and seafood plant workers (see 9463 Fish and seafood plant workers)
- Industrial butchers and meat cutters, poultry preparers and related workers (see 9462 Industrial butchers and meat cutters, poultry preparers and related workers)
- Labourers in fish and seafood processing (see 9618 Labourers in fish and seafood processing)
- Supervisors, food and beverage processing (see 9213 Supervisors, food and beverage processing)
- Testers and graders, food and beverage processing (see 9465 Testers and graders, food and beverage processing)

*Main duties*

Process control operators in this unit group perform some or all of the following duties:

- Operate multi-function process control machinery through control panels, computer terminals or other control systems to grind, extract, mix, blend, cook or otherwise process food products and to bag, box or otherwise package food products
- Operate multi-function process control machinery to grind, extract, mix, blend, distill, ferment or otherwise process alcoholic or non-alcoholic beverages and to bottle, can or otherwise package beverages
- Observe gauges, computer printouts and video monitors to verify specified processing conditions and make adjustments to process variables such as cooking times, ingredient inputs, flow rates and temperature settings
- Maintain shift log of production and other data.

Machine operators in this group perform some or all of the following duties:

- Set up and adjust food or beverage processing and packaging machines
- Operate single-function machines to grind, extract, mix, blend, dry, freeze, cook or otherwise process food or beverage products
- Operate single-function machines to box, can or otherwise package food or beverage products
- Check products to ensure conformance to company standards and clear machine blockages as required
- Record production information such as quantity, weight, size, date and type of products packaged
- Perform corrective machine adjustments, clean machines and immediate work areas.

*Employment requirements*

- Completion of secondary school may be required.
- Experience as a labourer in food or beverage processing may be required for machine operators.
- Experience as a machine operator in food or beverage processing is usually required for industrial process control operators.
- On-the-job training is provided.

*Additional information*

- Machine operators may progress to process control operation or supervisory positions in food and beverage processing with experience.
- Process control operators may progress to supervisory positions in food and beverage processing with experience.
- There is little mobility among the various types of process control operators within the food and beverage processing industry.
- There is mobility among machine operators within the food and beverage processing industry.

## 9462 Industrial butchers and meat cutters, poultry preparers and related workers

Workers in this unit group prepare meat and poultry for further processing or for packaging for wholesale distribution. They are employed in meat and poultry slaughtering, processing and packing establishments.

*Illustrative example(s)*

- beef boner
- ham cutter
- industrial butcher
- industrial meat cutter

- meat trimmer
- poultry preparer
- slaughterer

*Exclusion(s)*

- Butchers, meat cutters and fishmongers - retail and wholesale (see 6331 Butchers, meat cutters and fishmongers - retail and wholesale)
- Labourers in food and beverage processing (see 9617 Labourers in food and beverage processing)
- Meat graders (see 9465 Testers and graders, food and beverage processing)
- Meat inspectors (see 2222 Agricultural and fish products inspectors)
- Supervisors, meat packing (see 9213 Supervisors, food and beverage processing)

*Main duties*

Workers in this unit group perform some or all of the following duties:

- Industrial butchers
- Slaughter livestock using stunning devices and knives
- Skin, clean and trim carcasses
- Remove viscera and other inedible parts from carcasses
- Split carcasses into smaller portions to facilitate handling
- May slaughter cattle, calves and sheep as prescribed by religious laws.
- Industrial meat cutters
- Cut beef, lamb, pork or veal carcasses or sides or quarters of carcasses into primal cuts for further cutting, processing or packaging
- Remove bones from meat
- Cut meat and poultry into specific cuts for institutional, commercial or other wholesale use
- Remove skin, excess fat, bruises or other blemishes from carcasses or meat portions.
- Poultry preparers
- Slaughter poultry and remove inedible parts
- Remove feathers and singe and wash poultry to prepare for further processing or packaging.

*Employment requirements*

- For industrial meat cutters, completion of a program in industrial meat cutting or Experience as an industrial butcher is required.
- On-the-job training is provided for industrial butchers, meat cutters and poultry preparers.
- Some secondary school education may be required.

*Additional information*

- Industrial meat cutters may progress to inspecting, testing and grading jobs.
- Progression to supervisory positions is possible with experience.

### 9463 Fish and seafood plant workers

This unit group includes fish and seafood plant machine operators who set up and operate machinery to process and package fish and seafood products, and fish and seafood plant cutters and cleaners who cut, trim and clean fish or seafood by hand. Fish and seafood plant workers are employed in fish and seafood processing plants.

*Illustrative example(s)*

- fish cake maker
- fish canning machine operator
- fish cleaner and cutter
- fish cutting machine operator - fish processing
- fish plant worker
- seafood preparer - fish and seafood processing
- shellfish processor
- shellfish shucker
- trimmer - fish processing

*Exclusion(s)*

- Labourers in fish and seafood processing (see 9618 Labourers in fish and seafood processing)
- Supervisors, food and beverage processing (see 9213 Supervisors, food and beverage processing)

*Main duties*

Fish and seafood plant machine operators perform some or all of the following duties:

- Set up and operate machines to clean, cut, cook, smoke, brine, dehydrate or otherwise process fish or seafood products
- Set up and operate machines to can, bag, box or otherwise package fish and seafood products
- Check products and packaging for defects and to ensure conformance to company standards and perform corrective machine adjustments as required
- Record production information such as quantity, weight, date and type of products packaged.

Fish and seafood plant cutters and cleaners perform some or all of the following duties:

- Cut, clean and trim fish or seafood prior to marketing or further processing
- Scrape away scales, cut fish, separate fillets and remove scrap parts using knife
- Check fish fillets to determine optimal number and size of fillet sections, cut sections according to specifications and place in container for weighing
- Disjoint and remove meat from lobsters or other crustaceans preparatory to canning or further processing.

*Employment requirements*

- Completion of secondary school is usually required.
- On-the-job training is required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 9465 Testers and graders, food and beverage processing

Testers and graders in this unit group test or grade ingredients and finished food or beverage products to ensure conformance to company standards. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, fish plants, meat plants, breweries and other food and beverage processing plants.

*Illustrative example(s)*

- beef grader
- beer tester
- cheese grader
- fish grader
- milk grader
- poultry grader
- product tester - food and beverage processing
- tobacco grader

*Exclusion(s)*

- Agricultural and fish products inspectors (see 2222 Agricultural and fish products inspectors)
- Quality control technologists and technicians in food processing (see 2211 Chemical technologists and technicians)
- Supervisors, food and beverage processing (see 9213 Supervisors, food and beverage processing)

*Main duties*

Testers and graders in this unit group perform some or all of the following duties:

- Take samples of products at various stages of processing
- Examine ingredients or finished products by sight, touch, taste and smell or weigh materials to ensure conformance to company standards
- Conduct routine tests for product specifications such as colour, alcohol content, carbonation, moisture content, temperature, fat content and packaging

- Grade or sort raw materials or finished products
- Ensure hygiene and sanitation practices conform to policies and regulations
- Advise supervisors of ingredient or product deficiencies.

*Employment requirements*

- Completion of secondary school may be required.
- Experience as a machine operator or labourer in the food or beverage processing industry may be required.
- On-the-job training is usually provided.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is little mobility among the various types of testers and graders in this unit group.

## 947 Printing equipment operators and related occupations

This minor group includes plateless printing equipment operators; camera, platemaking and other prepress occupations; binding and finishing machine operators; and photographic and film processors. They are employed by rapid printing services, newspaper and magazine publishing companies and commercial printing companies; firms that specialize in colour graphics or platemaking and cylinder preparation and commercial publishing companies; binderies, other publishing companies and establishments in the public and private sectors that have in-house printing, binding and finishing departments; and film processing laboratories and retail photofinishing establishments.

### 9471 Plateless printing equipment operators

This unit group includes workers who operate laser printers, computerized high speed colour copiers and other printing machines to print text, illustrations and designs on a wide variety of materials such as paper, plastic, glass, leather, and metal. They are employed in rapid printing services, newspaper and magazine publishing companies, commercial printing companies and in manufacturing and other establishments that have in-house printing facilities.

*Illustrative example(s)*

- colour copier operator
- electronic sign maker operator
- embossing-imprinting machine operator
- laser printer operator
- printing machine operator - printing
- quick print machine operator
- silk-screen printing machine operator
- wallpaper printer

*Exclusion(s)*

- Printing press operators (see 7381 Printing press operators)
- Supervisors, printing and related occupations (see 7303 Supervisors, printing and related occupations)
- Textile printing machine operators (see 9441 Textile fibre and yarn, hide and pelt processing machine operators and workers)

*Main duties*

Printing machine operators perform some or all of the following duties:

- Review work order to determine job specifications, such as ink colour and quantity required
- Set up and make adjustments to printing machine, such as filling ink or paint reservoirs and loading stock
- Input codes and key in programming data on console keyboard of computerized machines
- Operate and monitor printing machines during print run and make adjustments as required
- Clean machines and replace worn parts.

*Employment requirements*

- Completion of college or other specialized courses in printing may be required.
- Completion of secondary school is required.
- On-the-job training is provided.

## 9472 Camera, platemaking and other prepress occupations

This unit group includes prepress technicians who operate various computer controlled systems to perform prepress activities and workers who operate graphic arts cameras and scanners, assemble film and negatives and prepare, engrave and etch printing plates or cylinders for various types of printing presses. They are employed in firms that specialize in colour graphics or platemaking and cylinder preparation, commercial publishing and printing companies, newspapers, magazines, and in various establishments in the public and private sectors that have in-house printing departments.

*Illustrative example(s)*

- camera operator - graphic arts
- cylinder preparer - printing
- dot etcher - printing
- file preparation operator
- film stripper-assembler
- platemaker - printing
- pre-flight operator - printing
- prepress technician
- printing plate engraver
- proofmaker
- screenmaker
- studio-image-processing system operator

*Exclusion(s)*

- Desktop publishing operators (see 1423 Desktop publishing operators and related occupations)
- Graphic arts technicians (see 5223 Graphic arts technicians)
- Graphic designers and illustrators (see 5241 Graphic designers and illustrators)
- Photographic and film processors (see 9474 Photographic and film processors)
- Supervisors, printing and related occupations (see 7303 Supervisors, printing and related occupations)

*Main duties*

The following is a summary of main duties for some occupations in this unit group:

- Graphic arts camera operators set up and adjust black and white or colour separation process cameras to convert graphic art and photographs into film for assembly and exposure onto printing plates or cylinders.
- Cylinder preparers grind and polish press cylinders; expose and lay down carbon tissue; and etch or engrave cylinders using hand tools, etching machines, photogravure or laser processes to produce cylinders for gravure presses.
- Film strippers and assemblers assemble and position, either using automated equipment or by hand, pieces of film containing all parts of a printing job to produce flats or composite negatives for preparing printing plates or cylinders.
- Platemakers operate vacuum frames, plate processors and step and repeat machines to produce printing plates for various types of presses.
- Prepress technicians operate various computer-controlled studio systems to perform colour separation, retouching and editing that allow changes to be made to a colour negative for printing purposes, plan page layouts and electronically alter shape, size and positions of illustrations and text.
- Scanner operators operate computerized scanning machines or digital cameras to make colour separations and corrections from colour copy or transparencies for use in preparing film, digital files, printing plates or cylinders.
- Proofmakers operate computerized equipment to prepare film, laser or dylux proofs for quality control purposes or for customers' review.

*Employment requirements*

- Completion of a college program in graphic arts technology or A combination of on-the-job training and specialized college, industry or other courses is required.
- Completion of secondary school is usually required.
- Trade certification for some occupations in this group is available, but voluntary, in Ontario, Alberta, the Northwest Territories and Nunavut.

### 9473 Binding and finishing machine operators

Binding and finishing machine operators set up, operate or oversee the operation of machines, equipment or computerized units that bind and finish printed material. Workers who perform finishing operations in the paper, carton and packaging industries, as well as those who encode and stamp plastic cards, are included in this unit group. They are employed by binderies, commercial printing companies, newspapers, magazines, and other publishing companies, and establishments in both the public and private sectors that have in-house printing, binding and finishing departments.

*Illustrative example(s)*

- binder - printing
- binder and finisher
- bindery operator
- bookbinding machine operator
- Cerlox binder operator
- cutter operator - printing
- finishing machine operator - printing
- foil stamper - printing
- gathering machine set-up operator - printing
- gold leaf stamper
- laminating machine operator
- machine bookbinder
- perforator operator - printing
- stitcher operator - printing

*Exclusion(s)*

- Feeders, loaders, offbearers and similar occupations (see 9619 Other labourers in processing, manufacturing and utilities)
- Hand bookbinders (see 5244 Artisans and craftspersons)
- Printing press operators (see 7381 Printing press operators)
- Supervisors, printing and related occupations (see 7303 Supervisors, printing and related occupations)

*Main duties*

Binding and finishing machine operators perform some or all of the following duties:

- Set up and operate specialized equipment and machines that cut, fold, gather and bind or finish brochures, pamphlets, business forms, magazines, books and other printed material
- Set up and operate specialized equipment and machines that die cut, emboss, imprint, laminate, heat stamp and perform other finishing operations on printed material
- Perform pre-production runs of binding or finishing jobs to verify output and to ensure that product specifications are met
- Operate automatic and semi-automatic equipment and machines to bind or finish print material according to specifications
- Pack, weigh and stack bound and finished products on pallet for shipment
- May repair and rebind damaged or worn books.

*Employment requirements*

- Completion of a college program in graphic arts technology or A combination of on-the-job training and specialized college, industry or other courses is usually required.
- Completion of secondary school is usually required.

*Additional information*
- Progression to supervisory positions is possible with experience.
- There is some mobility among various types of binding and finishing machine operator occupations in this group.

## 9474 Photographic and film processors

Photographic and film processors process and finish still photographic film and motion picture film. They are employed in film processing laboratories and retail photofinishing establishments.

*Illustrative example(s)*
- darkroom technician
- film developer
- film printing machine operator
- film processor
- photofinisher
- photograph developer
- photograph inspector - photographic processing
- photographic processor

*Exclusion(s)*
- Film strippers and assemblers and negative spotters in the printing or graphic arts industry (see 9472 Camera, platemaking and other prepress occupations)
- Supervisors of photographic and film processors (see 7303 Supervisors, printing and related occupations)

*Main duties*

Photographic and film processors perform some or all of the following duties:
- Operate equipment to develop negatives and slides, and to print black and white and colour photographs
- Operate photographic enlarging equipment to produce prints and enlargements from negatives
- Operate equipment to develop motion picture film
- Tend automatic equipment in retail establishments to develop colour negatives, prints and slides
- Operate equipment to transfer film to video tape
- Retouch photographic negatives or original prints to correct defects
- Splice film and mount film on reels
- Measure and mix chemicals required for processing
- Inspect rolls of photographic prints for conformance to specifications; or motion picture film to detect defects in developing and printing.

*Employment requirements*
- Completion of secondary school is required.
- For employment as a film printing machine operator in retail outlets, on-the-job training is provided.
- For employment in film processing laboratories, completion of a college or other specialized photography program or Extensive related experience is required.

*Additional information*
- Progression is possible from automatic machine tenders in retail establishments to laboratory processing occupations.
- There is mobility among occupations within laboratory processing operations.

## 95 Assemblers in manufacturing

This major group comprises assemblers in manufacturing occupations which usually require some secondary education and experience or on-the-job training, and may require completion of secondary school, college courses or a college program. It includes mechanical, electrical and electronics assemblers; and other assembly and related occupations.

## 952 Mechanical, electrical and electronics assemblers

This minor group includes aircraft assemblers and aircraft assembly inspectors; motor vehicle assemblers, inspectors and testers; electronics assemblers, fabricators, inspectors and testers; assemblers and inspectors in electrical appliance, apparatus and equipment manufacturing; assemblers, fabricators and inspectors of industrial electrical motors and transformers; mechanical assemblers and inspectors; and machine operators and inspectors in electrical apparatus manufacturing. They are employed by aircraft and aircraft subassembly manufacturers; plants which manufacture automobiles, vans and light trucks; electronics manufacturing plants; electrical appliance and electrical equipment manufacturing companies; manufacturers of industrial electric motors, transformers, control equipment, railway locomotives, transit vehicles and other heavy electrical equipment; machinery and transportation equipment manufacturers; and by other manufacturing companies.

### 9521 Aircraft assemblers and aircraft assembly inspectors

Aircraft assemblers assemble, fit and install prefabricated parts to manufacture fixed wing or rotary wing aircraft or aircraft subassemblies. Aircraft assembly inspectors inspect aircraft assemblies for adherence to engineering specifications. They are employed by aircraft and aircraft subassembly manufacturers.

*Illustrative example(s)*

- aircraft assembler
- aircraft inspector, assembly
- airframe assembler
- bench and structural assembler
- bench fitter mechanic - aircraft assembly
- rigger - aircraft assembly
- wing tank mechanic - aircraft assembly

*Exclusion(s)*

- Aircraft engine assemblers (see 7316 Machine fitters)
- Aircraft mechanics and aircraft inspectors (see 7315 Aircraft mechanics and aircraft inspectors)
- Aircraft painters (see 9536 Industrial painters, coaters and metal finishing process operators)
- Avionics and aircraft electronic equipment installers (see 2244 Aircraft instrument, electrical and avionics mechanics, technicians and inspectors)
- Supervisors of aircraft assemblers or inspectors (see 9226 Supervisors, other mechanical and metal products manufacturing)

*Main duties*

Aircraft assemblers perform some or all of the following duties:

- Read and interpret aircraft assembly diagrams
- Assemble and fit pre-fabricated parts to form subassemblies, working at benches or directly on an aircraft structure
- Assemble, fit and install pre-fabricated parts and subassemblies such as aircraft skins, flight controls, rigging, hydraulics and other mechanical systems.

Aircraft assembly inspectors perform some or all of the following duties:

- Inspect aircraft assemblies, using measuring and testing equipment, for adherence to engineering specifications
- Inspect assemblies for alignment, symmetry, dimensions, fit and quality of workmanship
- Complete detailed inspection documentation.

*Employment requirements*

- Aircraft assemblers receive several months of on-the-job and classroom training.
- Aircraft assembly inspectors require experience as an aircraft assembler.
- Completion of a college or other program in aviation or aeronautical technology, with emphasis in aircraft manufacturing, may be required.
- Completion of secondary school is usually required.

*Additional information*

- Aircraft assemblers and assembly inspectors may progress to supervisory positions with experience.

## 9522 Motor vehicle assemblers, inspectors and testers

Motor vehicle assemblers assemble and install prefabricated motor vehicle parts and components to form subassemblies and finished motor vehicles. Motor vehicle inspectors and testers inspect and test parts, subassemblies, accessories and finished products to ensure proper performance and conformity to quality standards. They are employed in plants which manufacture automobiles, vans and light trucks.

*Illustrative example(s)*

- assembly inspector - motor vehicle manufacturing
- auto assembly worker
- body assembler - motor vehicle manufacturing
- car assembler
- chassis inspector - motor vehicle manufacturing
- door fitter
- motor vehicle assembler
- sport utility vehicle (SUV) assembler
- test driver - automobile assembly
- transmission installer
- van assembler

*Exclusion(s)*

- Assemblers of heavy trucks, trailers and buses (see 9526 Mechanical assemblers and inspectors)
- Automobile assembly painters and coaters (see 9536 Industrial painters, coaters and metal finishing process operators)
- Automotive engine, clutch and transmission assemblers (see 9526 Mechanical assemblers and inspectors)
- Mechanical repairers, automobile manufacturing (see 7321 Automotive service technicians, truck and bus mechanics and mechanical repairers)
- Supervisors, motor vehicle assembling (see 9221 Supervisors, motor vehicle assembling)

*Main duties*

Motor vehicle assemblers perform some or all of the following duties:

- Read electrical schematics, blueprints and other technical diagrams
- Bolt, screw, clip, weld, solder or otherwise fasten motor vehicle parts and components together using hand and power tools and equipment
- Operate and tend automated assembling equipment such as robotic and fixed automation equipment
- Connect cables, tubes and wires to complete assemblies and installations
- Position and install parts, subassemblies and accessories such as engines, transmissions, door panels or instrument panels using hand and power tools and other aids such as overhead hoists
- Fit and adjust parts such as doors, hoods and trunk lids.

Motor vehicle inspectors and testers perform some or all of the following duties:

- Check motor vehicle exterior priming and colour coats, sealers and glazers, and mark, record and report defects to be repaired
- Test motor vehicle electrical assemblies, equipment and wiring for proper performance using testing devices such as meters, analyzers and timing lights
- Inspect auto parts and fully assembled motor vehicles for defects to ensure that the defects have been corrected
- Drive and test motor vehicles on roll testing device to ensure that transmission, axle, engine and brakes function properly.

*Employment requirements*

- Completion of secondary school is usually required for electronics assemblers, fabricators, inspectors and testers.

- Skills required for occupations in this unit group are normally acquired through on-the-job training.

*Additional information*

- Mobility is possible to jobs in the same production department.
- Progression to supervisory positions is possible with experience.

## 9523 Electronics assemblers, fabricators, inspectors and testers

Electronics assemblers and fabricators assemble and fabricate electronic equipment, parts and components. Electronics inspectors and testers inspect and test electronic and electromechanical assemblies, subassemblies, parts and components to ensure conformance to prescribed standards. They are employed in electronics manufacturing plants.

*Illustrative example(s)*

- capacitor assembler
- circuit board assembler
- component inserting machine operator
- crystal final tester
- electronic components tester
- electronics assembler
- electronics inspector - electronic equipment manufacturing
- finished product inspector - electronic equipment manufacturing
- precision instrument assembler - electronic equipment manufacturing
- printed circuit board (PCB) assembly inspector
- surface mount assembler
- through-hole assembler
- wafer fabrication operator
- wave soldering machine operator
- wiring and assembly operator

*Exclusion(s)*

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (see 9524 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing)
- Electrical and electronics engineering technologists and technicians (see 2241 Electrical and electronics engineering technologists and technicians)
- Electronic service technicians (household and business equipment) (see 2242 Electronic service technicians (household and business equipment))
- Supervisors, electronics manufacturing (see 9222 Supervisors, electronics manufacturing)

*Main duties*

Electronics assemblers perform some or all of the following duties:

- Solder and manually assemble various electronic components such as resistors, diodes, transistors, capacitors, integrated circuits, switches, wires and other electronic parts to designated locations on printed circuit boards
- Assemble microcircuits requiring fine hand assembly, the use of microscopes and adherence to cleanroom procedures
- Install, mount, fasten, align and adjust parts, components, wiring and harnesses to subassemblies and assemblies using hand and small power tools
- Operate automatic and semi-automatic machines to position, solder and clean prescribed components on printed circuit boards
- May replace defective components and repair and overhaul older devices.

Electronics fabricators perform some or all of the following duties:

- Operate and monitor process equipment including automatic and semi-automatic machines to fabricate electronic components, solder, clean, seal and stamp components and perform other process operations as specified
- Set up process equipment and adhere to cleanroom procedures as required.

Electronics inspectors perform some or all of the following duties:

- Inspect electronic components and assemblies to ensure correct component selection and placement, wiring and soldering quality, proper pin insertions, location and diameter of plated holes, breaks in circuitry and line spacing in printed circuit board and other specified requirements while products are being assembled or fabricated
- Check final assembly for finish, labelling and packaging methods
- Check mechanical dimensions and perform "go-no-go" electrical tests
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results
- Investigate equipment malfunction and instruct on proper operation.

Electronics testers perform some or all of the following duties:

- Operate various test equipment and tools to perform simple electrical and continuity testing of electronic components, parts and systems
- Set up and operate automatic testing equipment to locate circuit and wiring faults, shorts and component defects
- Compare test results to specifications and set parts or products aside for repair or replace components or parts as indicated by test equipment
- May conduct life tests (burn-ins) on components, subassemblies and assemblies
- Maintain test result reports.

*Employment requirements*

- A two-year apprenticeship program and trade certification for electronics assemblers are available but voluntary in Saskatchewan.
- Electronics inspectors and testers may require experience as an electronics assembler or component fabricator.
- Electronics testers may require post-secondary courses in basic electronic theory, testing techniques and testing equipment.
- On-the-job training is usually provided for occupations in this unit group.
- Some secondary school education is usually required.

*Additional information*

- Progression from electronics assembler or component fabricator to electronics inspector or tester is possible with additional training and experience.

## 9524 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing

Assemblers in this unit group assemble prefabricated parts to produce household, commercial and industrial appliances and equipment. Inspectors in this unit group inspect and test assembled products. Workers who set up and prepare assembly lines for operation are included in this unit group. Workers in this unit group are employed by electrical appliance and electrical equipment manufacturing companies.

*Illustrative example(s)*

- circuit breaker assembler
- clothes dryer assembler, electric
- coffee maker assembler
- dishwasher assembler
- electrical appliance assembler
- electrical appliance assembly inspector
- electrical equipment production assembler
- hair dryer assembler
- inspector, electrical controls assembly
- lawn mower assembler, electric
- refrigerator assembler, electric

*Exclusion(s)*

- Appliance servicers and repairers (see 7332 Appliance servicers and repairers)
- Assemblers of electrical motors, transformers and related equipment (see 9525 Assemblers, fabricators and inspectors, industrial electrical motors and transformers)
- Assemblers of electronic products, such as televisions, radios and computers (see 9523 Electronics assemblers, fabricators, inspectors and testers)
- Electrical mechanics (see 7333 Electrical mechanics)
- Machine operators and inspectors, electrical apparatus manufacturing (see 9527 Machine operators and inspectors, electrical apparatus manufacturing)
- Supervisors, electrical products manufacturing (see 9223 Supervisors, electrical products manufacturing)

*Main duties*

Assemblers in this unit group perform some or all of the following duties:

- Assemble prefabricated parts on an assembly line, or at work benches using screw guns and other hand and power tools
- Assemble small and large household electrical appliances such as coffeemakers, toasters, vacuum cleaners, lawn mowers, refrigerators and dishwashers
- Assemble small transformers, small electrical motors and transmissions used in appliances or other electrical products
- Assemble circuit breakers, switches or other electrical control equipment and position and fasten components such as springs, toggles or other parts into assembly casings
- Wind coils and armatures for small electric motors and transformers
- Perform minor repairs to products rejected from production assembly line
- Set up assembly line with materials and supplies required for production, and set up and adjust production tools.

Inspectors and testers in this unit group perform some or all of the following duties:

- Check products at different stages of production for visual defects and faulty electrical and mechanical connections, or operate automatic or other testing equipment to ensure product quality
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results.

*Employment requirements*

- Completion of secondary school is usually required.
- Inspectors may require experience as an assembler in the same company.
- On-the-job training is provided.
- Some types of inspectors may require completion of a college program in electronics.

*Additional information*

- Progression to supervisory positions is possible with experience.
- With experience assemblers may progress to inspecting and testing positions.

## 9525 Assemblers, fabricators and inspectors, industrial electrical motors and transformers

This unit group includes workers who assemble, fabricate, fit, wire and inspect heavy-duty industrial electrical equipment. They are employed by manufacturers of industrial electric motors, transformers, control equipment, railway locomotives, transit vehicles and other heavy electrical equipment.

*Illustrative example(s)*

- AC (alternating current) and DC (direct current) motors fitter-assembler
- control panel assembler
- electrical fitter
- electrical switchgear panel wirer
- inspector and tester, AC and DC motors
- inspector, electrical control panel
- motor and generator assembler and wirer

- panelboard assembler - industrial electrical equipment
- power transformer assembler
- switchgear and control panel assembler - industrial electrical equipment
- switchgear fitter-wirer
- transformer coil winder
- transformer inspector
- transformer winder

*Exclusion(s)*

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (see 9524 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing)
- Electrical mechanics (see 7333 Electrical mechanics)
- Electrical technicians who test heavy-duty electric motors, transformers or other industrial electrical equipment (see 2241 Electrical and electronics engineering technologists and technicians)
- Supervisors, electrical products manufacturing (see 9223 Supervisors, electrical products manufacturing)

*Main duties*

Assemblers in this unit group perform some or all of the following duties:

- Assemble and fit metal and other prefabricated parts to close tolerances according to blueprints to build heavy-duty electric motors or transformers
- Assemble stators or armatures for heavy-duty electric motors; compress steel laminations to build transformer cores; assemble windings into core using overhead cranes and make electrical connections using crimping, brazing and soldering equipment
- Assemble and fit electrical motor or transformer auxiliary equipment such as bushings, tap changes, conduit boxes, heating devices, protective equipment and cooling equipment
- Set up and adjust production machinery and equipment, such as coil winding machines, for the manufacture of heavy-duty electrical equipment
- May perform basic tests on electric motors.

Electrical fitters and wirers in this unit group perform some or all of the following duties:

- Interpret engineering drawings, electrical schematics and blueprints
- Fit motor starters, contactors, capacitors, circuit breakers, voltage regulators, printed circuit boards or other electrical control devices into switchboards and panelboards to produce automated processing control equipment, electrical distribution panels, or other industrial electrical control equipment
- Wire electrical connections for switchboards and panelboards
- Assemble panelboard and switchboard cabinets and install bus bars used to carry heavy electrical current
- May operate metal fabricating equipment to fabricate or modify bus bars.

Inspectors in this unit group perform some or all of the following duties:

- Monitor production and troubleshoot production problems
- Check final assembly of electric motors, transformers or control equipment for adherence to quality control standards
- Collect, record and summarize inspection results.

*Employment requirements*

- College courses in electricity or electro-technology may be required.
- Set-up persons, inspectors and leadhands in this unit group may require experience as an assembler, fitter or wirer in the same company.
- Several years of on-the-job training are usually provided.
- Some secondary school education is required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 9526 Mechanical assemblers and inspectors

Assemblers in this unit group assemble a wide variety of mechanical products such as trucks, buses, snowmobiles, garden tractors, automotive engines, transmissions, outboard motors, gearboxes, hydraulic pumps and sewing machines. Inspectors in this unit group check and inspect subassemblies and finished products to ensure proper quality and product specifications. They are employed by machinery and transportation equipment manufacturers and by other manufacturing companies.

*Illustrative example(s)*

- automotive engine assembler
- garden machinery assembler
- gearbox assembler
- gearcase assembler
- hydraulic hoist assembler
- mechanical assembler
- sewing machine assembler
- snowmobile assembler
- tractor assembler
- transmission assembler
- truck assembler
- truck assembly inspector
- truck trailer assembler
- vending machine assembler

*Exclusion(s)*

- Aircraft assemblers and aircraft assembly inspectors (see 9521 Aircraft assemblers and aircraft assembly inspectors)
- Industrial machinery, heavy equipment and aircraft engine assemblers (see 7316 Machine fitters)
- Motor vehicle assemblers, inspectors and testers (see 9522 Motor vehicle assemblers, inspectors and testers)
- Supervisors of mechanical assemblers and inspectors (see 9226 Supervisors, other mechanical and metal products manufacturing)

*Main duties*

Mechanical assemblers in this unit group perform some or all of the following duties:

- Assemble, fit and install prefabricated parts to form subassemblies or finish products using hand and power tools
- Position, align and adjust parts for proper fit and assembly and connect cables, tubes and wires
- Fasten parts together using bolting and riveting equipment or other fastening and joining techniques
- Operate or tend automated assembling equipment, such as robotics and fixed automation equipment
- Operate small cranes to transport or position larger parts as required.

Mechanical inspectors in this unit group perform some or all of the following duties:

- Check subassemblies and inspect finished products for proper quality
- Check mechanical assemblies and subassemblies for alignment and proper functioning
- Test and check electrical assemblies and wiring for proper connections
- Perform minor adjustments and repairs.

*Employment requirements*

- Experience as a mechanical assembler may be required for inspectors in this unit group.
- Some secondary school education is usually required.
- Up to two years of on-the-job training are provided.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is little or no mobility among the various assemblers and inspectors in this unit group.

## 9527 Machine operators and inspectors, electrical apparatus manufacturing

Machine operators in this unit group operate machinery or equipment to fabricate complete products or parts for use in the assembly of electrical appliances and equipment, and electrical apparatus, such as batteries, fuses and plugs. Inspectors in this unit group inspect and test completed parts and production items. Workers in this unit group are employed by electrical appliance and electrical equipment manufacturing companies.

*Illustrative example(s)*

- assembly machine setter - electrical equipment manufacturing
- dry cell charge machine operator
- epoxy coating machine operator
- inspector, electrical dry battery
- inspector, electrical light bulbs
- machine operator - electrical equipment manufacturing
- machine set-up operator - electrical appliance manufacturing
- production line battery repairer - electrical equipment manufacturing

*Exclusion(s)*

- Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing (see 9524 Assemblers and inspectors, electrical appliance, apparatus and equipment manufacturing)
- Supervisors, electrical products manufacturing (see 9223 Supervisors, electrical products manufacturing)

*Main duties*

Machine operators in electrical apparatus manufacturing perform some or all of the following duties:

- Operate machinery to assemble, test or package dry cell batteries
- Position lead acid storage batteries on assembly line and insert battery contents into casing
- Operate machinery, such as pasting and stacking machines, to fabricate plates for lead acid storage batteries
- Load machinery with glass tubes, bulbs and other parts used to produce incandescent, fluorescent and other types of light bulbs and tubes, and remove and pack finished product
- Operate or feed machinery and equipment to produce electrical wiring devices such as fuses, plugs, caps, sockets, connectors and switches
- Operate equipment to apply protective coatings to items such as freezer cabinets, small electric motors or transformer assemblies
- Perform minor repairs to items rejected from production line
- Set up and adjust production machinery and equipment for operation.

Inspectors and testers in electrical apparatus manufacturing perform some or all of the following duties:

- Check in-process and completed production items for visual or mechanical defects or operate testing equipment to maintain quality of products
- Identify and mark acceptable and defective assemblies and return faulty assemblies to production for repair
- Collect, record and summarize inspection results.

*Employment requirements*

- Inspectors may require experience as an assembler in the same company.
- On-the-job training is provided.
- Some secondary school education may be required.

*Additional information*

- Progression to supervisory positions is possible with experience.
- With experience, machine operators may progress to inspecting and testing positions.

## 953 Other assembly and related occupations

This minor group includes boat assemblers and inspectors; furniture and fixture assemblers and inspectors; other wood products assemblers and inspectors; furniture finishers and refinishers; plastic products assemblers, finishers and inspectors; industrial painters, coaters and metal finishing process operators; and other product assemblers, finishers and inspectors. They are employed by boat and marine craft manufacturing companies; furniture manufacturing companies; establishments engaged in manufacturing a variety of wood and millwork products; retail furniture stores and furniture refinishing and repair shops; plastic products manufacturing companies and plastic parts divisions of aircraft and other manufacturing companies; custom refinishing, coating and plating shops; and a wide variety of manufacturing companies; or they may be self-employed.

### 9531 Boat assemblers and inspectors

Boat assemblers assemble wooden, fibreglass and metal boats, such as sailboats, motorboats, canoes and cabin cruisers. Boat inspectors check assembled boats to ensure proper product quality. They are employed by boat and marine craft manufacturing companies.

*Illustrative example(s)*

- aluminum boat assembler
- boat assembler
- boat inspector
- canoe assembler
- fibreglass boat assembler
- motorboat assembler
- sailboat assembler

*Exclusion(s)*

- Builders of customized wooden boats and wood shipwrights (see 7271 Carpenters)
- Canoe builders (see 5244 Artisans and craftspersons)
- Helpers and labourers in boat assembly (see 9619 Other labourers in processing, manufacturing and utilities)
- Marine repair technicians (see 7384 Other trades and related occupations, n.e.c.)
- Supervisors of boat assemblers and inspectors (see 9227 Supervisors, other products manufacturing and assembly)
- Workers who fabricate, assemble and fit steel and other metal components to build ships (see 7235 Structural metal and platework fabricators and fitters)

*Main duties*

Boat assemblers perform some or all of the following duties:

- Cut, shape and join timber pieces or assemble pre-cut timber pieces to make a wooden boat using hand and power tools
- Assemble prefabricated parts and sections of fibreglass, metal or other material to form complete boat
- Caulk decks and hulls using caulking gun
- Install trims, rudders, seats, engine mounts and other accessories using hand tools
- May repair boats.

Boat inspectors perform some or all of the following duties:

- Inspect assembled boats for defects and conformance to quality standards
- Mark defects to be repaired
- Make minor adjustments and repairs
- Record information on products inspected.

*Employment requirements*

- Completion of college or other courses in boat building may be required.
- Experience as a boat assembler may be required for boat inspectors.
- Experience as a helper or labourer in the same company may be required for boat assemblers.
- On-the-job training is provided.

- Some secondary school education may be required.

*Additional information*
- Progression to supervisory positions is possible with experience.

## 9532 Furniture and fixture assemblers and inspectors

Assemblers in this unit group assemble parts to form subassemblies or complete articles of furniture and fixtures. Inspectors in this unit group inspect furniture and fixture subassemblies and finished products to ensure product quality. They are employed by furniture manufacturing companies.

*Illustrative example(s)*
- assembly inspector - furniture manufacturing
- chair assembler
- desk assembler
- fixture assembler
- furniture assembler
- furniture inspector
- metal furniture assembler
- table assembler
- wood furniture assembler

*Exclusion(s)*
- Furniture finishers and refinishers (see 9534 Furniture finishers and refinishers)
- Other wood products assemblers and inspectors (see 9533 Other wood products assemblers and inspectors)
- Supervisors of workers in this unit group (see 9224 Supervisors, furniture and fixtures manufacturing)
- Woodworking machine operators (see 9437 Woodworking machine operators)

*Main duties*

Furniture and fixture assemblers in this unit group perform some or all of the following duties:
- Prepare, sand and trim wooden furniture and fixture parts using hand and power tools
- Assemble wooden or metal furniture and fixture parts to form subassemblies and complete articles using hand and power tools
- Assemble a combination of parts made of wood, metal, plastic, cane or other materials to form subassemblies or complete furniture articles
- Reinforce assembled furniture and fixtures with dowels or other supports
- Install hardware such as hinges or clasps on furniture and fixtures.

Furniture and fixture inspectors in this unit group perform some or all of the following duties:
- Inspect furniture and fixture subassemblies and finished products for conformance to quality standards
- Mark defective parts or products for repair
- Make minor adjustments and repairs
- Record information on products inspected.

*Employment requirements*
- Experience as a labourer in the same company may be required.
- On-the-job training is provided.
- Some secondary school education may be required.

*Additional information*
- Mobility is possible between jobs in this unit group.
- Progression to supervisory positions is possible with experience.

## 9533 Other wood products assemblers and inspectors

Assemblers in this unit group assemble a variety of wood products and millwork, such as window sashes and doors. Inspectors in this unit group inspect wood products to ensure product quality. They are employed by establishments engaged in manufacturing a variety of wood and millwork products.

*Illustrative example(s)*

- manufactured housing production worker
- millwork assembler
- prefabricated housing assembler
- sash and door inspector
- wood products assembler
- wood products assembling inspector
- wood products bench assembler
- wooden box assembler
- wooden crate builder
- wooden door maker
- wooden pallet maker

*Exclusion(s)*

- Cabinetmakers (see 7272 Cabinetmakers)
- Carpenters (see 7271 Carpenters)
- Furniture and fixture assemblers and inspectors (see 9532 Furniture and fixture assemblers and inspectors)
- Labourers in wood products manufacturing (see 9619 Other labourers in processing, manufacturing and utilities)
- Supervisors, other products manufacturing and assembly (see 9227 Supervisors, other products manufacturing and assembly)
- Woodworking machine operators (see 9437 Woodworking machine operators)

*Main duties*

Assemblers in this unit group perform some or all of the following duties:

- Read production orders and diagrams
- Trim and sand joints, moulding, or other wooden parts to be assembled using hand and power tools
- Assemble wood products such as window sashes, doors, boxes, pallets, ladders and barrels using glue, staples, screws, bolts or other fasteners
- Assemble door panels, trusses, modular components and other parts on assembly line to make prefabricated housing using jigs, overhead cranes and hand and power tools
- Reinforce assembled products with dowelling or other supports, and install hardware such as knobs and hinges
- May assist with maintenance of machinery.

Inspectors in this unit group perform some or all of the following duties:

- Inspect wood products for conformance to quality standards
- Mark defective parts or products for repair
- Make minor adjustments and repairs
- Record information on products inspected.

*Employment requirements*

- Experience as a labourer in the same company may be required.
- Inspectors may require related assembly experience.
- On-the-job training is provided.
- Some secondary school education is required.

## 9534 Furniture finishers and refinishers

Furniture finishers finish new wood or metal furniture to specified colour and finish. They are employed in furniture manufacturing plants, retail furniture stores or refinishing and repair shops. Furniture refinishers refinish repaired, used or old furniture. They are employed in furniture refinishing and repair shops or they may be self-employed.

*Illustrative example(s)*

- finishing machine operator - furniture manufacturing
- furniture finisher
- furniture polisher - furniture finishing
- furniture refinisher
- furniture stainer
- furniture stripper
- touch-up person - furniture finishing
- trimmer - furniture finishing
- wash-off operator - furniture finishing
- wood finisher - furniture finishing and refinishing

*Exclusion(s)*

- Painters and decorators (except interior decorators) (see 7294 Painters and decorators (except interior decorators))
- Upholsterers (see 6345 Upholsterers)

*Main duties*

Furniture finishers perform some or all of the following duties:

- Set up and operate finishing machines or finish furniture by hand
- Stain or finish wood to specified colour with stains, paints or other materials using brush or spray gun
- Apply toners, highlights, glazes or shaders to obtain desired finish
- Apply lacquer or other sealers
- Decorate wood surfaces or mark surfaces to create antique or other effects using hand and power tools
- Clean and polish furniture
- Sand metal furniture to prepare for finish and spray with paint or other materials.

Furniture refinishers perform some or all of the following duties:

- Strip old finish from wood surfaces using steel wool, sandpaper and solvents
- Smooth gouges with wood filler and sand wood
- Match colours to obtain original finish and apply appropriate finish to stripped wood
- Polish and wax refinished surfaces
- Sand or grind metal surfaces to prepare for coating, and paint metal surfaces using electrostatic method, spray gun or other painting equipment
- Make minor repairs to furniture
- May perform duties of furniture finisher.

*Employment requirements*

- College, high school or industry courses in furniture finishing or refinishing may be required.
- On-the-job training is provided.
- Some secondary school education is usually required.

## 9535 Plastic products assemblers, finishers and inspectors

Workers in this unit group assemble, finish and inspect plastic parts and finished products. They are employed by plastic products manufacturing companies and plastic parts divisions of aircraft or other manufacturing companies.

*Illustrative example(s)*

- fibreglass laminator
- plastic bottle trimmer
- plastic parts assembler

- plastic products fabricator
- plastic products inspector and tester
- plastic tank assembler
- plastics assembler
- plastics inspector
- plastics trimmer
- skylight assembler - plastic products manufacturing

*Exclusion(s)*
- Labourers in rubber and plastic products manufacturing (see 9615 Labourers in rubber and plastic products manufacturing)
- Plastics processing machine operators (see 9422 Plastics processing machine operators)
- Rubber processing machine operators and related workers (see 9423 Rubber processing machine operators and related workers)
- Supervisors, plastic and rubber products manufacturing (see 9214 Supervisors, plastic and rubber products manufacturing)

*Main duties*

Plastic products assemblers and finishers perform some or all of the following duties:
- Operate machines or equipment, or use hand tools to cut, shape, splice and fit plastic materials to form parts and assemblies
- Assemble composite materials on patterns to form parts and assemblies using bonding agents
- Operate spray-gun unit to apply resin mixtures to metal or wooden mould to form plastic products
- Load and operate autoclave oven to cure and bond plastic and composite parts and subassemblies
- Operate finishing equipment to trim, grind or buff plastic products into final form.

Plastic products inspectors perform some or all of the following duties:
- Inspect manufactured plastic products for defects and conformance to specifications and quality standards, visually or using instruments
- Affix seals or tags to approved plastic products and mark and reroute defective products for repair or recycle
- Prepare reports on products inspected
- Make minor adjustments and repairs to products
- May train or assist in training new workers.

*Employment requirements*
- Experience as a labourer in the same company may be required for assemblers, finishers and inspectors.
- On-the-job training is provided.
- Some secondary school education is usually required.

*Additional information*
- Mobility among the various workers in this unit group is possible.
- Progression to supervisory positions is possible with experience.

## 9536 Industrial painters, coaters and metal finishing process operators

Industrial painters and coaters operate and tend machines or use brushes and spray equipment to apply paint, enamel, lacquer or other non-metallic protective and decorative coatings to surfaces of various products. Metal finishing process operators operate machines or equipment to deposit metallized substances on workpieces and surfaces to provide decorative, protective and restorative coatings. These workers are employed by manufacturing companies and custom refinishing, coating and plating shops.

*Illustrative example(s)*
- assembly line painter
- automatic paint-sprayer operator
- automobile painter - motor vehicle manufacturing
- aviation painter

- ceramic and enamel refinisher
- coating machine operator - industrial painting and coating
- electrogalvanizing machine operator
- enameller - ship and boat building
- hot-dip galvanizer - metal plating
- industrial products painter
- metal coater operator
- metal electroplater
- production painter-finisher
- spray paint operator

*Exclusion(s)*

- Autobody repair painters (see 7322 Motor vehicle body repairers)
- Construction painters (see 7294 Painters and decorators (except interior decorators))
- Etchers - metal machining (see 9417 Machining tool operators)
- Furniture finishers and refinishers (see 9534 Furniture finishers and refinishers)
- Supervisors of non-automotive metal finishing workers (see 9226 Supervisors, other mechanical and metal products manufacturing)
- Supervisors of paint department workers - plastic and rubber manufacturing (see 9214 Supervisors, plastic and rubber products manufacturing)
- Supervisors of paint shop workers - motor vehicle manufacturing (see 9221 Supervisors, motor vehicle assembling)

*Main duties*

Industrial painters and coaters perform some or all of the following duties:

- Select appropriate paint or mix paints using automated paint mixing equipment according to a pre-determined formula
- Operate or tend equipment to clean, wash, strip, sand, remove corrosion, fill dents or otherwise prepare items for application of paint, lacquer or other protective or decorative coatings
- Operate or tend automated spray paint, dip or flow coating equipment or other mechanized painting or product coating application equipment
- Operate hand-held spray guns to spray paint or coat stationary items or items on moving conveyor system with protective or decorative coatings
- Paint small items and apply touch-ups using paint brushes
- Clean and maintain painting and coating, ventilation, compressed air and personal protective equipment
- May prepare and apply stencils, computer-generated decals or other decorative items on finished products.

Metal finishing process operators perform some or all of the following duties:

- Prepare and mix metallizing solutions according to formulas or specifications
- Operate or tend equipment to clean, degrease, pickle and etch metal and non-metal surfaces to prepare workpieces with desired surface characteristics
- Tend automatic metal coating machines which convey objects through a series of cleaning, rinsing and plating solutions
- Operate and control electroplating equipment to coat metal and other workpieces
- Operate hot-dip metal plating equipment to galvanize metal and other workpieces
- Operate spray equipment to build up worn or damaged parts or to bond protective or decorative coatings on various objects
- Check proper thickness of plating using micrometers, calipers or other devices
- May operate equipment to polish metallic surfaces of products
- May tend ovens which cure metal coating.

*Employment requirements*

- Several months of on-the-job training are usually provided.
- Some experience in operating production machinery or equipment may be required.
- Some industrial painters, such as aviation painters, may require specialized training and certification or college courses.

- Some secondary school education is usually required.

*Additional information*

- Progression to supervisory positions is possible with experience.

## 9537 Other products assemblers, finishers and inspectors

This unit group includes assemblers, finishers and inspectors, not elsewhere classified, who assemble, finish and inspect components or products of various materials, such as jewellery, silverware, buttons, pencils, non-prescription lenses, brushes, clocks and watches, musical instruments, sporting goods, toys and other miscellaneous products. They are employed by a wide variety of manufacturing companies.

*Illustrative example(s)*

- antenna assembler
- bicycle assembler
- brush making machine operator
- button machine operator
- camera assembly inspector
- crayon making machine tender
- eyeglass frame assembler
- golf club assembler
- jewellery annealer
- jewellery inspector
- lampshade assembler
- piano assembly inspector
- prism maker operator
- skate press operator
- sports ball moulder
- stuffing machine tender
- tennis ball maker operator
- toy inspector
- Venetian blind assembler
- watch assembler

*Exclusion(s)*

- Supervisors, other products manufacturing and assembly (see 9227 Supervisors, other products manufacturing and assembly)

*Main duties*

Assemblers and finishers in this unit group perform some or all of the following duties:

- Operate machines or use hand tools to cut, shape and fit materials to form parts and to fabricate components or products
- Load supplies into hoppers of dispensing units or manually align, feed or otherwise place materials into machines
- Screw, clip, glue, bond, weld or otherwise assemble parts and components to form final products
- Sand, trim, grind or clean products into final form using hand tools
- Clean work stations and remove scraps, dust, shavings or other by-products from machinery and surrounding areas
- May make routine changes of dies, nozzles or other machinery attachments as required.

Inspectors in this unit group perform some or all of the following duties:

- Check manufactured items for defects and for conformance to specifications, visually or using sample models and instruments
- Affix seals or tags to approved items and return defective products for repair or recycle
- Complete reports on product inspection.

*Employment requirements*

- Completion of secondary school may be required for some positions in this group.
- Experience as a manufacturing labourer in the same company may be required.
- On-the-job training is provided.

*Additional information*

- Progression to supervisory positions is possible with experience.
- There is little or no mobility among the various assemblers and inspectors in this unit group.

## 96 Labourers in processing, manufacturing and utilities

This major group comprises labourers in manufacturing and utilities occupations which may require some secondary school education or completion of secondary school. It includes labourers in processing, manufacturing and utilities.

## 961 Labourers in processing, manufacturing and utilities

This minor group includes labourers in mineral and metal processing; labourers in metal fabrication; labourers in chemical products processing and utilities; labourers in wood, pulp and paper processing; labourers in rubber and plastic products manufacturing; labourers in textile processing; labourers in food, beverage and associated products processing; labourers in fish and seafood processing; and other labourers in processing, manufacturing and utilities. They are employed by mineral ore and metal processing plants, cement processing plants, clay, glass and stone processing plants and foundries; structural steel, boiler and platework fabrication plants, heavy machinery manufacturing plants, sheet metal fabrication shops, shipbuilding and other metal products manufacturing companies; petroleum and natural gas processing, pipeline and petrochemical, chemical and pharmaceutical companies; electrical, water and waste treatment utilities and services; pulp and paper, and paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies; rubber and plastic products manufacturing companies; textile manufacturing companies; fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food, beverage and associated products processing and packaging plants; fish and seafood processing and packaging plants; companies that manufacture other products; and printing and packaging companies.

## 9611 Labourers in mineral and metal processing

Labourers in this unit group perform material handling, clean-up, packaging and other elemental activities related to mineral ore and metal processing. They are employed in mineral ore and metal processing plants such as copper, lead and zinc refineries, uranium processing plants, steel mills, aluminum plants, precious metal refineries, cement processing plants, clay, glass and stone processing plants and foundries.

*Illustrative example(s)*

- asbestos worker - mineral processing
- brick and tile kiln cleaner
- core shop labourer - foundry
- extrusion helper - primary metal processing
- furnace loader - primary metal and mineral products processing
- glass packer
- helper, fibreglass oven charger
- lime kiln operator helper - mineral products processing
- metal pourer helper
- rolling mill worker - primary metal processing
- salt screening labourer
- tailings disposal labourer - primary metal processing

*Exclusion(s)*

- Labourers in metal fabrication (see 9612 Labourers in metal fabrication)

- Machine operators and related workers in mineral and metal products processing and manufacturing (see 941 Machine operators and related workers in mineral and metal products processing and manufacturing)
- Supervisors, mineral and metal processing (see 9211 Supervisors, mineral and metal processing)

*Main duties*

Labourers in mineral and metal processing perform some or all of the following duties:

- Transport raw materials, finished products, scrap and recyclable materials throughout plant manually or using forklift or other powered equipment
- Feed conveyors, crushers and other equipment; open valves and start pumps; skim dross from furnaces; sort, stack, bundle and stamp materials; and perform other activities to assist process and machine operators in mineral ore and metal processing
- Clean work areas and equipment
- May assist with minor repairs and maintenance.

*Employment requirements*

- Some secondary school education may be required.

*Additional information*

- Progression to machine and process operator positions is possible with experience.

## 9612 Labourers in metal fabrication

Labourers in this unit group remove excess metal and unwanted materials from metal parts, castings and other metal products and perform other labouring activities. They are employed in structural steel, boiler and platework fabrication plants, heavy machinery manufacturing plants, sheet metal fabrication shops, shipbuilding and other metal products manufacturing companies.

*Illustrative example(s)*

- blacksmith helper
- buffing machine tender - metal products manufacturing
- grinder-deburrer
- labourer - metal fabrication
- metal cleaner - metal products manufacturing
- metalworking machine helper
- plater helper - metal fabrication
- shipfitter helper
- shotblaster - metal fabrication
- wheelabrator operator - metal products manufacturing

*Exclusion(s)*

- Labourers in mineral and metal processing (see 9611 Labourers in mineral and metal processing)

*Main duties*

Labourers in this unit group perform some or all of the following duties:

- Read and interpret work orders
- Operate metal cleaning equipment such as wheelabrators, deburrers and shotblasters to remove excess welds, rust, scale and other material from surfaces of metal parts, castings and other metal products
- Polish metal products to mirror finish
- Immerse metal products in cleaning solutions
- Assist structural steel and platework fitters, sheet metal workers, metalworking machine operators or other metal workers
- Transport raw materials and finished metal products manually or using hoists or other devices
- Sort metal sheets and parts, scrap metal and other materials
- Clean work areas and equipment
- Load and unload vehicles using hand truck or dolly
- May cut, grind or chip excess metal from metal products using hand tools.

*Employment requirements*
- Completion of secondary school may be required.

*Additional information*
- Progression to metalworking machine operator positions is possible with experience.
- There is some mobility among occupations in this unit group.

## 9613 Labourers in chemical products processing and utilities

Labourers in this unit group carry out a variety of material handling, cleaning and routine general labouring activities. They are employed by petroleum and natural gas processing, pipeline and petrochemical, chemical and pharmaceutical companies, and by electrical, water and waste treatment utilities and services.

*Illustrative example(s)*
- coating machine feeder - chemical processing
- filter cleaner - chemical processing
- helper - chemical processing
- labourer - gas utility
- loader - chemical processing
- retort unloader
- still cleaner - chemical processing
- water intake tender
- waterworks labourer

*Exclusion(s)*
- Chemical plant machine operators (see 9421 Chemical plant machine operators)
- Petroleum, gas and chemical process operators (see 9232 Central control and process operators, petroleum, gas and chemical processing)
- Supervisors, petroleum, gas and chemical processing and utilities (see 9212 Supervisors, petroleum, gas and chemical processing and utilities)
- Water and waste treatment plant operators (see 9243 Water and waste treatment plant operators)
- Waterworks and gas maintenance workers (see 7442 Waterworks and gas maintenance workers)

*Main duties*

Labourers in this unit group perform some or all of the following duties:
- Feed and unload production machinery and equipment
- Clean chemical processing machines and equipment and production areas
- Move, sort and pile materials and products manually and using powered equipment
- Assist other workers to operate, repair and maintain process equipment, gas distribution, water filtration and waste plant equipment
- Perform general duties such as basic construction, painting and other manual tasks.

*Employment requirements*
- Some secondary school education may be required.

*Additional information*
- Considerable mobility is possible among jobs in this unit group.
- Progression to operator positions in the chemical or utility industry is possible with experience and appropriate qualifications.

## 9614 Labourers in wood, pulp and paper processing

Labourers in this unit group carry out a variety of general labouring and routine wood processing activities and assist pulp mill and papermaking machine operators. They are employed by pulp and paper, and paper converting companies, sawmills, planing mills, wood treatment plants, waferboard plants and other wood processing companies.

*Illustrative example(s)*

- beater operator helper - pulp and paper
- chip bin attendant - wood processing
- conveyor cleaner - pulp and paper
- green wood chainman/woman - wood processing
- grinder feeder - pulp and paper
- labourer - pulp and paper
- labourer - wood processing
- lumber straightener - wood processing
- plywood dryer feeder
- sheeter helper - pulp and paper
- utility man/woman - pulp and paper

*Exclusion(s)*

- Machine operators and related workers in pulp and paper production and wood processing and manufacturing (see 943 Machine operators and related workers in pulp and paper production and wood processing and manufacturing)
- Supervisors, forest products processing (see 9215 Supervisors, forest products processing)

*Main duties*

Labourers in this unit group perform some or all of the following duties:

- Feed logs onto conveyor and into hopper of grinding machine and align logs manually, using crowbar, picaroon or other tools and equipment
- Load wood chips, pulpwood, sulphur and other processing materials onto conveyors or processing tanks, remove recyclable paper and pulp from pulp and papermaking machines and transport recyclable paper and pulp to plant processing machines and equipment using forklift or other powered equipment
- Sort, pile and transport lumber, veneer sheets, panelboards and similar wood products during various stages of wood processing, manually or with powered equipment
- Remove scrap lumber and wood chips for reprocessing using forklift or other powered equipment
- Feed conveyors, saws, drying machines and other equipment to process lumber, shingles, veneer, plywood and similar wood products
- Clean wood processing machines and equipment and work areas using shovels, hoses and other tools
- Assist other wood processing workers to operate, maintain and repair various machines and equipment and carry out other wood processing activities.

*Employment requirements*

- Previous experience as a mine labourer or in other mine occupations is usually required.

*Additional information*

- Progression to machine or plant operating positions is possible with experience.
- There is considerable mobility among jobs within individual establishments.

## 9615 Labourers in rubber and plastic products manufacturing

Labourers in this unit group assist machine operators, transport materials and perform similar tasks. They are employed by rubber and plastic products manufacturing companies.

*Illustrative example(s)*

- belt builder helper
- labourer - plastic products manufacturing
- labourer - rubber products manufacturing
- machine offbearer - rubber products manufacturing
- mould cleaner - rubber products manufacturing
- moulded products stripper - rubber and plastic products manufacturing
- roll changer - rubber manufacturing
- spreader operator helper - plastic products manufacturing

*Exclusion(s)*

- Plastic products assemblers, finishers and inspectors (see 9535 Plastic products assemblers, finishers and inspectors)
- Plastics processing machine operators (see 9422 Plastics processing machine operators)
- Rubber processing machine operators and related workers (see 9423 Rubber processing machine operators and related workers)
- Supervisors, plastic and rubber products manufacturing (see 9214 Supervisors, plastic and rubber products manufacturing)

*Main duties*

Labourers in this unit group perform some or all of the following duties:

- Assist machine operators or assemblers in performing their duties
- Assist in setting up and dismantling machinery and equipment
- Clean and lubricate machinery and equipment
- Transport materials and tools to and from work areas using hand trucks or other conveyance
- Prepare raw materials for mixing process
- Monitor machines to watch for jammed materials or defective products.

*Employment requirements*

- Provincial blasting licence may be required.

*Additional information*

- Progression to machine operator or assembler positions in rubber and plastic products manufacturing is possible with experience.

## 9616 Labourers in textile processing

Labourers in textile processing perform a variety of manual duties to assist in processing fibres into yarn or thread, or to assist in weaving, knitting, bleaching, dyeing or finishing textile fabrics or other textile products. They are employed by textile manufacturing companies.

*Illustrative example(s)*

- doffer
- dyeing and finishing machine loader
- helper - textiles
- textile machine cleaner
- waste machine feeder
- yarn handler

*Exclusion(s)*

- Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing (see 944 Machine operators and related workers in textile, fabric, fur and leather products processing and manufacturing)
- Supervisors, other products manufacturing and assembly (see 9227 Supervisors, other products manufacturing and assembly)
- Supervisors, textile, fabric, fur and leather products processing and manufacturing (see 9217 Supervisors, textile, fabric, fur and leather products processing and manufacturing)

*Main duties*

Labourers in textile processing perform some or all of the following duties:

- Load and off-load machines
- Clean textile machines and work areas
- Push carts, trucks, or cans of fibres from one work area to another
- Assist machine operators and other textile workers as required.

*Employment requirements*
- Completion of secondary school is required by the pulp and paper industry and by other large employers.

*Additional information*
- Progression to machine operator positions is possible with experience.

## 9617 Labourers in food and beverage processing

Labourers in this unit group perform material handling, clean-up, packaging and other elemental activities related to food and beverage processing. They are employed in fruit and vegetable processing plants, dairies, flour mills, bakeries, sugar refineries, meat plants, breweries and other food and beverage processing and packaging plants.

*Illustrative example(s)*
- bottle-washing machine tender - food and beverage processing
- brewery labourer
- candy packer
- dairy helper - food and beverage processing
- food processing labourer
- frozen food packer
- meat packager
- nut sorter - food and beverage processing
- production helper - food and beverage processing
- tobacco processing labourer

*Exclusion(s)*
- Grain sampler - food and beverage processing (see 9465 Testers and graders, food and beverage processing)
- Labourers in fish and seafood processing (see 9618 Labourers in fish and seafood processing)
- Process control and machine operators, food and beverage processing (see 9461 Process control and machine operators, food and beverage processing)
- Supervisors, food and beverage processing (see 9213 Supervisors, food and beverage processing)

*Main duties*

Labourers in food and beverage processing perform some or all of the following duties:
- Transport raw materials, finished products and packaging materials throughout plant and warehouse manually, or with powered equipment
- Measure and dump ingredients into hoppers of mixing and grinding machines or mobile tank trucks
- Feed and unload food and beverage processing machines
- Feed flattened boxes into forming machines to construct containers
- Remove filled containers from conveyors and manually pack goods into bags, boxes or other containers
- Clean work areas and equipment
- Check products and packaging for basic quality defects
- Assist process control and machine operators in performing their duties.

*Employment requirements*
- Some secondary school education is usually required.

*Additional information*
- Labourers in food and beverage processing may progress to machine or process operating positions with experience.
- There is some mobility among occupations in this unit group.

## 9618 Labourers in fish and seafood processing

Labourers in this unit group perform clean-up, packaging, material handling and other elemental activities related to fish and seafood processing. They are employed in fish and seafood processing and packaging plants.

*Illustrative example(s)*
- cannery labourer
- fish briner - fish processing
- fish plant labourer
- fish salter - fish processing
- fish weigher
- shellfish labourer
- shellfish packer - fish processing

*Exclusion(s)*
- Fish and seafood plant workers (see 9463 Fish and seafood plant workers)
- Foremen/women of workers in fish and seafood processing (see 9213 Supervisors, food and beverage processing)

*Main duties*

Labourers in fish and seafood processing perform some or all of the following duties:
- Unload fish and shellfish from fishing vessels and transport them by hand or forklift truck to work area in fish processing plant
- Immerse fresh fish fillets in brine solution to condition them for wrapping or freezing
- Weigh fish or shellfish, record weight and pack fish in ice
- Sort fish according to species, weight and destination
- Clean work areas and equipment
- Transport supplies and packaging materials throughout plant and storage area manually or with powered equipment
- Measure and dump ingredients into hoppers of mixing and grinding machines.

*Employment requirements*
- Some secondary school education may be required.

*Additional information*
- Progression to other occupations in the fish processing industry is possible with experience.

## 9619 Other labourers in processing, manufacturing and utilities

This unit group includes labourers, not elsewhere classified, who perform material handling, clean-up, packaging and other elemental activities in processing, manufacturing and utilities. They are employed by companies that manufacture products such as clothing, footwear, furniture and electrical and electronic products and by printing and packaging companies.

*Illustrative example(s)*
- bindery helper
- box packer
- carton marker
- chair sander
- clothing plant labourer
- electrical products labourer
- film cutter - film processing
- furniture packer
- garment folder
- lens blocker
- machine packager
- seed packager
- shoe manufacturing labourer
- sorter, recyclable materials
- upholsterer helper

*Exclusion(s)*

- Supervisors of labourers in this unit group (see 9227 Supervisors, other products manufacturing and assembly)
- Supervisors, electrical products manufacturing (see 9223 Supervisors, electrical products manufacturing)
- Supervisors, furniture and fixtures manufacturing (see 9224 Supervisors, furniture and fixtures manufacturing)
- Supervisors, other products manufacturing and assembly (see 9227 Supervisors, other products manufacturing and assembly)

*Main duties*

Labourers in this unit group perform some or all of the following duties:

- Transport raw materials, finished products and equipment throughout plant manually or using powered equipment
- Check and weigh materials and products
- Sort, pack, crate and package materials and products
- Assist machine operators, assemblers and other workers
- Clean work areas and equipment
- Perform other labouring and elemental activities.

*Employment requirements*

- Experience using a payroll system or software may be required.

*Additional information*

- Progression to machine operating positions is possible with experience.
- There is some mobility among occupations in this unit group.

# Alphabetic Index

(

3413 (EMCA) emergency medical care attendant
3213 (RAHT) registered animal health technologist

2

5241 2D animation artist
5241 2D animator

3

5241 3D animation artist
5241 3D animator
5241 3D artist
2233 3D CNC (computer numerical control) programmer
5241 3D modeler

9

1525 911 dispatcher
1215 911 emergency centre operations officer

A

9213 abattoir foreman/woman
9213 abattoir supervisor
4313 able seaman - armed forces
7532 able seaman/woman (except armed forces)
4164 Aboriginal affairs development officer
4164 Aboriginal affairs officer
5244 Aboriginal art carver
0011 Aboriginal band chief
0011 Aboriginal band council member
4212 Aboriginal centre co-ordinator
0423 Aboriginal centre manager
5244 Aboriginal craftwork instructor
4163 Aboriginal economic development officer
4156 Aboriginal employment developer
4156 Aboriginal employment officer
4164 Aboriginal employment policy officer
4164 Aboriginal employment program officer
4156 Aboriginal employment worker
4164 Aboriginal issues lobbyist
4168 Aboriginal land claims liaison officer
4212 Aboriginal outreach officer - social services
4212 Aboriginal outreach worker
4031 Aboriginal school community teacher - secondary school
0422 Aboriginal school principal
4032 Aboriginal school teacher - elementary school
9415 abrasive and clay products grader
9537 abrasive belt cutter
9414 abrasive mixer - stone products
9414 abrasive products kiln fireman/woman - non-metallic mineral products
9611 abrasive reclaimer - mineral products processing
9619 abrasive sheets inspector
9537 abrasive wheel binder
9414 abrasive wheel grinder
9414 abrasive wheel maker
9414 abrasive wheel moulder
9415 abrasive wheel tester
9414 abrasives furnace preparer - stone products
9232 absorption operator
9232 absorption plant operator
4211 abstractor
9525 AC (alternating current) and DC (direct current) motors fitter-assembler
4033 academic adviser
0014 academic association president
0014 academic business vice-president
4033 academic counsellor
4033 academic skills counsellor
4031 academic subjects high school teacher
4031 academic subjects secondary school teacher
4021 academic subjects teacher - college level
0422 academic superintendent
0651 academy of music manager
7611 access floor installer helper
7271 access floor specialist carpenter
7245 access technician - telecommunication
1221 access to information and privacy officer
1221 access to information officer
1313 accident and sickness underwriter - insurance
1224 accommodation co-ordinator
1224 accommodation officer
1224 accommodation planning officer
0632 accommodation services manager
0632 accommodations manager
5133 accompanist
7445 accordion repairer
5133 accordion teacher - private, conservatory or studio lessons
1431 account audit clerk
1114 account manager
0601 account manager - sales
1432 account records clerk - payroll
0114 account records manager
1431 account verification clerk
1111 accountant

| | |
|---|---|
| **1111** | accountant-controller |
| **1111** | accountants supervisor |
| **1431** | accounting and auditing clerk |
| **0111** | accounting and financial control chief |
| **0111** | accounting and financial control director |
| **1431** | accounting assistant |
| **1311** | accounting bookkeeper |
| **1431** | accounting clerk |
| **1212** | accounting clerks supervisor |
| **1111** | accounting controller |
| **0111** | accounting department manager |
| **0111** | accounting director |
| **0125** | accounting firm manager |
| **0125** | accounting firm manager - business services |
| **0111** | accounting manager |
| **0111** | accounting manager - financial services department |
| **0111** | accounting office manager |
| **0114** | accounting records manager |
| **1212** | accounting section head |
| **1212** | accounting supervisor |
| **4021** | accounting teacher - college level |
| **4031** | accounting teacher - secondary school |
| **1311** | accounting technician |
| **1434** | accounts clerk - financial sector |
| **6552** | accounts information clerk |
| **6551** | accounts information service clerk - financial institution |
| **0122** | accounts manager - banking, credit and investment |
| **1212** | accounts payable analyst |
| **1431** | accounts payable and receivable clerk |
| **1431** | accounts payable clerk |
| **1212** | accounts payable supervisor |
| **1431** | accounts receivable clerk |
| **1212** | accounts receivable supervisor |
| **1434** | accounts representative - financial sector |
| **6314** | accounts supervisor - financial services |
| **1314** | accredited appraiser |
| **9613** | acetylene cylinder preparer |
| **9421** | acetylene plant attendant |
| **9416** | acetylene torch operator - metal fabrication |
| **7237** | acetylene welder |
| **9619** | acid bottler |
| **9611** | acid conditioning worker - primary metal processing |
| **9432** | acid maker - pulp and paper |
| **9232** | acid mixer operator |
| **9232** | acid plant operator |
| **9421** | acid pumper - chemical processing |
| **6732** | acid tank cleaner |
| **8412** | acid treater - oil field services |
| **8412** | acid truck driver - oil field services |
| **9619** | acid-bottling machine tender |
| **8412** | acidizer - oil field services |
| **9421** | acidulation plant tender |
| **2261** | acoustic emission technician |
| **2261** | acoustic emission tester |
| **7284** | acoustic tile and drywall installer |
| **7284** | acoustic tile installer |
| **9537** | acoustic tile surfacer |
| **7284** | acoustical ceiling installer |
| **2132** | acoustical engineer |
| **2132** | acoustics and vibration engineer |
| **2132** | acoustics engineer |
| **2111** | acoustics physicist |
| **2123** | acreage-quota assignment officer |
| **5232** | acrobat |
| **0433** | acting sub-lieutenant |
| **5135** | acting teacher - private or studio |
| **3414** | activationist - health support services |
| **3414** | activities co-ordinator - health support services |
| **5254** | activities leader - seniors |
| **3414** | activity aide - health support services |
| **3414** | activity leader - seniors |
| **3414** | activity worker - health support services |
| **1123** | actor agent |
| **5135** | actor/actress |
| **2161** | actuarial analyst |
| **2161** | actuarial assistant |
| **1434** | actuarial clerk |
| **0212** | actuarial department manager |
| **2161** | actuary |
| **3232** | acupressure therapist |
| **3414** | acupuncture assistant |
| **3414** | acupuncture attendant |
| **3232** | acupuncturist |
| **3011** | acute care co-ordinator - nursing |
| **3124** | acute care nurse practitioner |
| **3111** | acute care specialist |
| **1423** | ad compositor - typesetting |
| **5121** | ad writer |
| **4152** | addiction social worker |
| **4153** | addictions counsellor |
| **4212** | addictions worker |
| **4212** | addictions worker - compulsive gambling |
| **7445** | adding machine repairer |
| **1411** | address forms clerk |
| **1511** | addressing machine operator - mail and postal services |
| **1511** | address-labelling machine tender |
| **1511** | address-plate inserter |
| **9537** | adhesive bandage machine tender |
| **2134** | adhesives engineer |
| **1228** | adjudication officer - employment insurance |
| **1228** | adjudication officer - immigration |
| **1228** | adjudicator - employment insurance |
| **1312** | adjuster |
| **1312** | adjuster - insurance |
| **1312** | adjuster trainee - insurance |
| **9523** | adjuster, filament-winding machine |
| **6552** | adjustment clerk |

| | |
|---|---|
| **0411** | adjustment programs director - government services |
| **3414** | adjuvant |
| **1221** | administration analyst |
| **0114** | administration and property management services director |
| **1221** | administration officer |
| **1221** | administration services co-ordinator |
| **4021** | administration teacher |
| **1221** | administrative analyst |
| **1241** | administrative assistant |
| **1242** | administrative assistant - legal |
| **1243** | administrative assistant - medical |
| **1241** | administrative assistant - office |
| **1411** | administrative clerk |
| **1211** | administrative clerks supervisor |
| **1452** | administrative contract clerk |
| **1221** | administrative co-ordinator |
| **3132** | administrative dietitian |
| **4111** | administrative judge |
| **4112** | administrative lawyer |
| **0511** | administrative librarian |
| **0114** | administrative manager |
| **3132** | administrative nutritionist |
| **1221** | administrative officer |
| **1221** | administrative planning officer |
| **0114** | administrative records department manager |
| **0114** | administrative records manager |
| **1241** | administrative secretary |
| **0114** | administrative services chief |
| **1221** | administrative services co-ordinator |
| **0114** | administrative services director |
| **0114** | administrative services manager |
| **1221** | administrative services officer |
| **1221** | administrative support officer |
| **0114** | administrative support services manager |
| **1221** | administrative technician |
| **0411** | administrative tribunal judge - government services |
| **0512** | administrator of studio and broadcasting station |
| **1227** | administrator of the court |
| **0433** | admiral |
| **0114** | admissions director - health care |
| **0421** | admissions director - post-secondary education |
| **1221** | admissions officer - post-secondary educational institution |
| **1414** | admitting clerk |
| **4164** | adoption project officer |
| **3216** | adult echocardiographer |
| **4166** | adult education consultant |
| **0421** | adult education dean |
| **4166** | adult education program officer |
| **0413** | adult education services director |
| **4031** | adult education teacher - secondary school |
| **3234** | advanced care paramedic |
| **3234** | advanced emergency medical assistant |
| **3234** | advanced life support attendant |
| **3234** | advanced life support co-ordinator |
| **3234** | advanced life support paramedic |
| **3124** | advanced nurse practitioner |
| **3124** | advanced practice nurse |
| **3211** | advanced registered technologist - medical laboratory |
| **6531** | adventure travel site interpreter |
| **1513** | advertisement delivery person - courier service |
| **1123** | advertising account executive |
| **1123** | advertising account manager |
| **0124** | advertising administrator |
| **6411** | advertising agency broker |
| **0124** | advertising agency manager |
| **0013** | advertising agency president |
| **4163** | advertising analyst |
| **1123** | advertising and promotions co-ordinator |
| **1123** | advertising and promotions specialist |
| **5241** | advertising art director |
| **5241** | advertising art supervisor |
| **4021** | advertising art teacher |
| **5241** | advertising artist |
| **1452** | advertising assistant |
| **1225** | advertising buyer |
| **1123** | advertising campaign organizer |
| **1452** | advertising clerk |
| **1213** | advertising clerks supervisor |
| **1435** | advertising collector |
| **1123** | advertising consultant |
| **5121** | advertising copywriter |
| **5241** | advertising designer |
| **0124** | advertising director |
| **5122** | advertising editor |
| **5241** | advertising illustrator |
| **5241** | advertising illustrator chief |
| **1513** | advertising item delivery person - courier service |
| **5241** | advertising layout designer |
| **0124** | advertising manager |
| **1452** | advertising space measurer |
| **6411** | advertising space representative - print media |
| **1123** | advertising specialist |
| **6411** | advertising time sales representative |
| **5121** | advertising writer |
| **4164** | adviser for the integration of persons with disabilities |
| **4112** | advisory counsel |
| **9437** | adzing and boring machine operator |
| **5232** | aerial acrobat - entertainment |
| **2271** | aerial crop duster |
| **8252** | aerial crop dusting service contractor |
| **2255** | aerial photograph analyst |
| **2255** | aerial photograph interpreter |
| **2255** | aerial photograph technician |

| | |
|---|---|
| **5221** | aerial photographer |
| **2271** | aerial sprayer |
| **7612** | aerial spraying assistant |
| **7612** | aerial spraying lineman/woman |
| **2271** | aerial survey flight supervisor |
| **2271** | aerial survey pilot |
| **2255** | aerial survey technician |
| **2255** | aerial survey technologist |
| **7521** | aerial tram operator |
| **5254** | aerobics instructor |
| **1215** | aerodrome supervisor |
| **2111** | aerodynamicist |
| **2146** | aerodynamics engineer |
| **7315** | aero-engine mechanic |
| **7315** | aero-engine technician |
| **2255** | aerological observer |
| **2255** | aerological technician |
| **3219** | aeromedical instructor |
| **3219** | aeromedical technician |
| **3219** | aeromedicine technician |
| **2253** | aeronautical draftsperson |
| **2146** | aeronautical engineer |
| **2146** | aeronautical project engineer |
| **2232** | aeronautical technologist |
| **2111** | aerophysicist |
| **2146** | aerospace engineer |
| **2146** | aerospace engineer - design and development |
| **2146** | aerospace engineer - flight operations |
| **2146** | aerospace engineer - flight support |
| **2146** | aerospace engineer - flight test |
| **2146** | aerospace engineer - mass properties |
| **2146** | aerospace engineer - material stress |
| **2146** | aerospace engineer - materials and processes |
| **2146** | aerospace engineer - propulsion systems |
| **2146** | aerospace engineer - systems |
| **2146** | aerospace engineer - systems analysis |
| **2146** | aerospace engineer - weight and balance |
| **0211** | aerospace engineering service head |
| **2232** | aerospace engineering technician |
| **2232** | aerospace engineering technologist |
| **2146** | aerospace reliability specialist |
| **2111** | aerospace research scientist |
| **2146** | aerospace structural engineer |
| **2146** | aerospace systems engineer |
| **2146** | aerospace test engineer |
| **1123** | affiliated stations relations administrator |
| **4164** | affirmative action advisor |
| **7321** | after sales service technician - motor vehicles |
| **7332** | after-sales service technician - electrical appliances |
| **0124** | agency marketing department manager |
| **6523** | agent ticket and information - airline |
| **9441** | ager operator - textile manufacturing |
| **9441** | ager tender - textile manufacturing |
| **9441** | aging machine operator - textile manufacturing |
| **9441** | aging machine tender - textile manufacturing |
| **2123** | agricultural advisor |
| **4161** | agricultural association analyst |
| **2112** | agricultural chemist |
| **0212** | agricultural chemistry branch director |
| **4021** | agricultural college teacher |
| **2123** | agricultural consultant |
| **4162** | agricultural economist |
| **2148** | agricultural engineer |
| **2231** | agricultural engineering technician |
| **6221** | agricultural equipment and supplies technical salesperson |
| **9526** | agricultural equipment assembler |
| **9226** | agricultural equipment assembly foreman/woman |
| **9526** | agricultural equipment assembly inspector |
| **9526** | agricultural equipment bench assembler |
| **9526** | agricultural equipment inspector |
| **7312** | agricultural equipment technician |
| **2123** | agricultural extension supervisor |
| **9526** | agricultural implement gearcase assembler |
| **9526** | agricultural implements inspector |
| **4161** | agricultural issues lobbyist |
| **2123** | agricultural livestock specialist |
| **7316** | agricultural machinery builder |
| **7316** | agricultural machinery fitter |
| **2114** | agricultural meteorologist |
| **0412** | agricultural policy director - government services |
| **2222** | agricultural products inspection supervisor |
| **2222** | agricultural products inspector |
| **0412** | agricultural products market development director - government services |
| **0412** | agricultural products market director |
| **0412** | agricultural programs manager - government services |
| **2123** | agricultural representative |
| **0212** | agricultural representatives director |
| **0212** | agricultural representatives regional manager |
| **4021** | agricultural school teacher |
| **2221** | agricultural sciences technician |
| **2121** | agricultural scientist |
| **2123** | agricultural soil and crop specialist |
| **2123** | agricultural specialist |
| **2221** | agricultural technician |
| **2221** | agricultural technologist |
| **4163** | agriculture and food sector development consultant |
| **4163** | agriculture and food sector marketing consultant |
| **8252** | agriculture foreman/woman |
| **4011** | agriculture professor - university |
| **2123** | agriculturist |
| **4163** | agri-food sector development consultant |

| | |
|---|---|
| **4163** | agri-food sector marketing consultant |
| **2112** | agrochemist |
| **2121** | agrogeologist |
| **2123** | agrologist |
| **2221** | agrology technician |
| **2221** | agrology technologist |
| **2123** | agronomist |
| **2148** | agronomy engineer |
| **2221** | agronomy technician |
| **2221** | agronomy technologist |
| **2148** | agroprocessing engineer |
| **9521** | aileron fitter - aircraft assembly |
| **9423** | air brake hose builder - rubber products manufacturing |
| **7314** | air brake inspector - railway car |
| **7611** | air breaker operator |
| **2262** | air carrier maintenance inspector |
| **0433** | air combat systems officer |
| **9241** | air compressor operator |
| **7445** | air compressor repairer |
| **9524** | air conditioner coil assembler |
| **7332** | air conditioner repairer - window unit |
| **7313** | air conditioning and heating mechanic |
| **7301** | air conditioning and refrigeration contractor |
| **7301** | air conditioning and refrigeration foreman/woman |
| **7313** | air conditioning and refrigeration mechanic |
| **7301** | air conditioning and refrigeration mechanic foreman/woman |
| **7301** | air conditioning contractor |
| **7612** | air conditioning mechanic helper |
| **7301** | air conditioning mechanics foreman/woman |
| **9241** | air conditioning system operator |
| **2253** | air conditioning systems draftsperson |
| **9524** | air conditioning unit tester |
| **6541** | air courier guard |
| **6732** | air duct cleaner |
| **6732** | air duct cleaning technician |
| **9537** | air filter assembler |
| **0731** | air freight manager |
| **7611** | air gun operator |
| **7611** | air hammer operator - construction |
| **9416** | air hammer operator - metal forging |
| **9462** | air knife meat cutter - meat packing plant |
| **7611** | air lock tender |
| **2271** | air navigator |
| **2271** | air patrol pilot |
| **2271** | air pilot |
| **2271** | air pilot and flight engineer supervisor |
| **2271** | air pilots and navigators supervisor |
| **2231** | air pollution field technician |
| **2114** | air quality meteorologist |
| **7611** | air tool operator |
| **7611** | air track drill operator helper |
| **2272** | air traffic control assistant |
| **2272** | air traffic control chief |
| **2272** | air traffic control officer |
| **2272** | air traffic controller (ATC) |
| **2272** | air traffic co-ordinator |
| **2262** | air transport inspector |
| **1215** | air transport operating staff supervisor |
| **1215** | air transport operations supervisor |
| **1215** | air transport operations support supervisor |
| **1526** | air transport schedule analyst |
| **7441** | air treatment installer |
| **9423** | airbag and tube curer - rubber products manufacturing |
| **9423** | airbag builder - rubber products manufacturing |
| **9615** | airbag extractor - rubber products manufacturing |
| **2255** | airborne data acquisition specialist |
| **2212** | airborne geophysical equipment operator |
| **5223** | airbrush artist |
| **9536** | airbrush painter |
| **9526** | air-cooled engine assembler |
| **7335** | air-cooled engine mechanic |
| **7315** | aircraft accessories mechanic |
| **7315** | aircraft accessories overhaul mechanic |
| **7315** | aircraft accessories overhaul technician |
| **7315** | aircraft accessories repairer |
| **7315** | aircraft accessories repairman/woman |
| **2244** | aircraft and missile electrotechnician - avionics |
| **9521** | aircraft assembler |
| **9226** | aircraft assembly foreman/woman |
| **9226** | aircraft assembly inspection foreman/woman |
| **9521** | aircraft assembly inspector |
| **9521** | aircraft assembly rigger |
| **9226** | aircraft assembly supervisor |
| **2244** | aircraft avionics technician |
| **9521** | aircraft bench assembler |
| **7315** | aircraft body repairer |
| **7534** | aircraft cleaner |
| **7315** | aircraft composite and sheet metal repairer |
| **6345** | aircraft custom upholsterer |
| **2146** | aircraft design engineer |
| **2244** | aircraft electrical equipment inspector and tester |
| **2244** | aircraft electrical inspector |
| **2244** | aircraft electrical mechanic |
| **2244** | aircraft electrical system mechanic |
| **2244** | aircraft electrical technician |
| **2244** | aircraft electrician |
| **2244** | aircraft electronic components technician |
| **2244** | aircraft electronic equipment inspector and tester |
| **2244** | aircraft electronic equipment installer |
| **2244** | aircraft electronic system mechanic |
| **2244** | aircraft electronics inspector |
| **7315** | aircraft engine accessories overhaul mechanic |
| **7301** | aircraft engine assemblers foreman/woman |
| **7316** | aircraft engine assembly fitter |

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| **7301** | aircraft engine assembly foreman/woman |
| **7316** | aircraft engine fitter |
| **7301** | aircraft engine fitters foreman/woman |
| **7315** | aircraft engine inspector |
| **7315** | aircraft engine mechanic |
| **7315** | aircraft engine mechanical systems overhaul inspector |
| **7315** | aircraft engine mechanical systems technician |
| **7301** | aircraft engine overhaul foreman/woman |
| **7315** | aircraft engine overhaul inspector |
| **7315** | aircraft engine overhaul mechanic |
| **9417** | aircraft engine parts machine tool set-up operator |
| **7231** | aircraft engine parts machinist |
| **7315** | aircraft engine repair and overhaul mechanic |
| **7301** | aircraft engine repair foreman/woman |
| **7315** | aircraft engine technician |
| **7315** | aircraft engine tester |
| **9521** | aircraft fabrication inspector |
| **9521** | aircraft final assembly inspector |
| **9521** | aircraft fitter-assembler - aircraft assembly |
| **6522** | aircraft flight attendant |
| **6345** | aircraft furnishing technician |
| **9226** | aircraft fuselage assembly foreman/woman |
| **7315** | aircraft gas turbine engine technician |
| **7534** | aircraft groomer |
| **9537** | aircraft heat shield maker |
| **9226** | aircraft hydraulic equipment installation foreman/woman |
| **7315** | aircraft hydraulics inspector |
| **7315** | aircraft hydraulics mechanic |
| **7301** | aircraft hydraulics repair shop foreman/woman |
| **7315** | aircraft hydraulics shop technician |
| **7315** | aircraft hydraulics technician |
| **7315** | aircraft hydraulics tester |
| **7315** | aircraft inspector |
| **9521** | aircraft inspector, assemblies and installations |
| **9521** | aircraft inspector, assembly |
| **2244** | aircraft instrument inspector |
| **2244** | aircraft instrument mechanic |
| **7612** | aircraft instrument mechanic helper |
| **2244** | aircraft instrument technician |
| **5242** | aircraft interior designer |
| **7232** | aircraft jig and template maker |
| **7232** | aircraft jig and tool maker |
| **7233** | aircraft layout man/woman sheet metal |
| **7231** | aircraft machinist |
| **7301** | aircraft maintenance chief |
| **2244** | aircraft maintenance engineer (AME) - avionics |
| **7315** | aircraft maintenance engineer (AME) (except avionics) |
| **7301** | aircraft maintenance engineer (AME) chief |
| **7315** | aircraft maintenance engineer (except avionics) |
| **7301** | aircraft maintenance engineers (AME) supervisor |
| **7315** | aircraft maintenance mechanic apprentice |
| **7301** | aircraft maintenance mechanics foreman/woman - aircraft mechanical systems |
| **7301** | aircraft maintenance service supervisor |
| **7301** | aircraft maintenance supervisor - aircraft mechanical systems |
| **7315** | aircraft maintenance technician |
| **7315** | aircraft mechanic |
| **7315** | aircraft mechanic experimental |
| **7612** | aircraft mechanic helper |
| **7315** | aircraft mechanic learner |
| **7315** | aircraft mechanical and fuel systems overhaul and repair mechanic |
| **7315** | aircraft mechanical systems flight tests inspector |
| **7315** | aircraft mechanical systems inspector |
| **7315** | aircraft mechanical systems junior mechanic |
| **7301** | aircraft mechanical systems maintenance service supervisor |
| **7301** | aircraft mechanical systems maintenance supervisor |
| **7315** | aircraft mechanical systems maintenance technician |
| **7315** | aircraft mechanical systems mechanic |
| **7301** | aircraft mechanical systems mechanics foreman/woman |
| **7315** | aircraft mechanical systems modification mechanic |
| **7315** | aircraft mechanical systems preflight mechanic |
| **7315** | aircraft mechanical systems repair and overhaul inspector |
| **7315** | aircraft mechanical systems repair inspector |
| **7315** | aircraft mechanical systems repair shop inspector |
| **7315** | aircraft mechanical systems technician |
| **7301** | aircraft mechanics and inspectors foreman/woman |
| **7301** | aircraft mechanics and inspectors foreman/woman - mechanical systems |
| **7301** | aircraft mechanics and repairers foreman/woman - mechanical systems |
| **7301** | aircraft mechanics foreman/woman |
| **7384** | aircraft mock-up maker |
| **7384** | aircraft model maker |
| **2261** | aircraft non-destructive inspection technician |
| **9536** | aircraft painter |
| **9226** | aircraft painter foreman/woman |
| **9535** | aircraft parts assembly repairer - plastic products manufacturing |
| **9417** | aircraft parts etcher |
| **9226** | aircraft parts etching foreman/woman |

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| 9521 | aircraft parts fitter - aircraft assembly |
| 9619 | aircraft parts packager |
| 9619 | aircraft parts wrapper |
| 7384 | aircraft patternmaker |
| 6345 | aircraft patternmaker and upholsterer |
| 9535 | aircraft plastic panelling assembler |
| 9535 | aircraft plastic parts trimmer-assembler |
| 7315 | aircraft plumbing and hydraulics mechanic |
| 9521 | aircraft power plant assembler-installer |
| 7315 | aircraft power plant mechanic |
| 7315 | aircraft propeller inspector |
| 7301 | aircraft propeller repair foreman/woman |
| 7315 | aircraft propeller systems technician |
| 7315 | aircraft propulsion technician |
| 7315 | aircraft reciprocating engine technician |
| 1411 | aircraft records clerk |
| 7534 | aircraft refueler |
| 7315 | aircraft repair and overhaul inspector |
| 7315 | aircraft repair shop inspector |
| 5212 | aircraft restoration technician - museum |
| 9521 | aircraft rigger - aircraft assembly |
| 9521 | aircraft rigging and controls mechanic - aircraft assembly |
| 9226 | aircraft rigging foreman/woman |
| 7315 | aircraft rotory mechanical systems technician |
| 7315 | aircraft safety systems mechanic |
| 6221 | aircraft sales representative |
| 9521 | aircraft sealer - aircraft assembly |
| 7301 | aircraft servicing foreman/woman |
| 7301 | aircraft servicing supervisor |
| 7315 | aircraft sheet metal technician |
| 7315 | aircraft skin repairer |
| 7315 | aircraft structural repair technician |
| 7315 | aircraft structural technician |
| 9521 | aircraft structure and surface assembler |
| 9521 | aircraft structure assembler |
| 7315 | aircraft systems inspector |
| 6221 | aircraft technical sales specialist |
| 9521 | aircraft tester - aircraft assembly |
| 9615 | aircraft tire tube balancer |
| 9423 | aircraft tire tube builder - rubber products manufacturing |
| 7534 | aircraft towing equipment operator |
| 6345 | aircraft upholsterer |
| 7237 | aircraft welder |
| 9521 | airframe assembler |
| 9521 | airframe assembler - aircraft assembly |
| 9521 | airframe fitter - aircraft assembly |
| 7315 | airframe mechanic |
| 9521 | airframe subassembler |
| 9521 | airframe unit assembler |
| 6523 | airline baggage agent |
| 6523 | airline cargo agent |
| 6523 | airline customer service representative |
| 4021 | airline customer-service instructor |
| 2272 | airline dispatcher |
| 0731 | airline division manager |
| 0731 | airline division superintendent |
| 0731 | airline express manager |
| 0731 | airline fleet operations manager |
| 0731 | airline flight schedule design manager |
| 6711 | airline food assembler |
| 1215 | airline load control supervisor |
| 6523 | airline load planner |
| 0731 | airline manager |
| 6523 | airline passenger agent |
| 2271 | airline pilot |
| 2271 | airline pilot instructor |
| 6522 | airline purser |
| 1525 | airline radio operator |
| 6523 | airline reservation agent |
| 6523 | airline sales and service agent |
| 6313 | airline sales and service agents supervisor |
| 0731 | airline superintendent |
| 2271 | airline test pilot |
| 6523 | airline ticket agent |
| 2271 | airplane pilot |
| 2272 | airport air traffic controller |
| 6731 | airport cleaner |
| 2131 | airport engineer |
| 7445 | airport equipment maintenance repairer |
| 0432 | airport fire department chief |
| 4312 | airport firefighter |
| 6733 | airport janitor |
| 7513 | airport limousine driver |
| 6733 | airport maintenance worker |
| 0714 | airport manager |
| 7534 | airport ramp attendant |
| 7302 | airport road paving foreman/woman |
| 7302 | airport runways road foreman/woman |
| 6541 | airport security guard |
| 0714 | airport services manager |
| 0714 | airport terminal manager |
| 6532 | airship pilot |
| 7372 | air-track drill operator - construction |
| 2262 | airworthiness inspector |
| 6541 | alarm investigator |
| 6541 | alarm signal investigator |
| 6541 | alarm signal specialist |
| 1525 | alarm system dispatcher |
| 1525 | alarm system operator |
| 6411 | alarm system sales representative |
| 2242 | alarm system technician |
| 2242 | alarm systems installer |
| 4153 | alcohol addiction counsellor |
| 6411 | alcoholic beverage sales representative - wholesale |
| 0011 | alderman/woman |
| 4031 | algebra teacher - secondary school |
| 2121 | algologist |
| 9523 | aligner - electronic equipment manufacturing |
| 7531 | aligner-tamper operator - railway |
| 7321 | alignment and brakes technician |
| 9472 | alignment examiner - printing |

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| **9232** | alkylation chief operator |
| **9232** | alkylation operator |
| **9232** | alkylation tower tender |
| **3111** | allergist |
| **3111** | allergologist |
| **9231** | alloy control operator - zinc casting |
| **9611** | alloy mixer - primary metal processing |
| **9611** | alloy processor - primary metal processing |
| **7334** | all-terrain vehicle repairer |
| **9526** | all-terrain vehicles inspector |
| **6532** | alpine guide |
| **6342** | alterations dressmaker |
| **6342** | alterations seamstress |
| **9217** | alterations supervisor - clothing manufacturing |
| **6221** | alternate heating energy consultant |
| **9525** | alternating current (AC) and direct current (DC) motors fitter-assembler |
| **6221** | alternative heating energy consultant - wholesale |
| **9525** | alternator tester |
| **5133** | alto |
| **9611** | alumina clarifier helper |
| **9411** | alumina clarifier operator |
| **9211** | alumina plant foreman/woman |
| **9611** | alumina recovery helper |
| **9411** | alumina recovery operator |
| **9523** | aluminizing equipment operator - electronic equipment manufacturing |
| **9537** | aluminum awning assembler |
| **7441** | aluminum awning installer |
| **9531** | aluminum boat assembler |
| **9531** | aluminum boat leak tester |
| **9411** | aluminum classifier |
| **7441** | aluminum door and window installer |
| **7441** | aluminum door installer |
| **9411** | aluminum electrolytic tank reconditioner |
| **9411** | aluminum electrolytic tank tender |
| **9411** | aluminum oxide controller |
| **9411** | aluminum pourer - primary metal processing |
| **9411** | aluminum powder maker |
| **6411** | aluminum products sales representative - wholesale |
| **6421** | aluminum products salesperson - retail |
| **9416** | aluminum sheet cutter - ductwork |
| **9416** | aluminum sheet cutter - metal fabrication |
| **9611** | aluminum sheet separator |
| **9416** | aluminum sheet trimmer - ductwork |
| **7441** | aluminum siding installer |
| **6421** | aluminum siding salesperson - retail |
| **9411** | aluminum slurry pump tender |
| **9411** | aluminum stretcher-leveller operator |
| **7441** | aluminum window installer |
| **9411** | aluminum-briquetting equipment operator |
| **9411** | aluminum-casting machine operator - primary metal processing |
| **9232** | alum-liquor plant operator |
| **0014** | alumni association executive director |
| **9411** | amalgamation process tender |
| **5251** | amateur athlete |
| **5252** | amateur athletics team coach |
| **0513** | amateur sport manager |
| **5252** | amateur sports team coach |
| **5252** | amateur track and field team coach |
| **0012** | ambassador |
| **3234** | ambulance attendant |
| **3234** | ambulance attendant trainee |
| **3234** | ambulance attendants supervisor |
| **1525** | ambulance dispatcher |
| **3234** | ambulance driver |
| **3234** | ambulance driver-attendant |
| **3234** | ambulance services field supervisor |
| **3234** | ambulance services supervisor |
| **3234** | ambulance services unit chief |
| **3234** | ambulance technician |
| **3012** | ambulatory care nurse |
| **2244** | AME (aircraft maintenance engineer) - avionics |
| **7315** | AME (aircraft maintenance engineer) (except avionics) |
| **7301** | AME (aircraft maintenance engineer) chief |
| **5125** | American Sign Language (ASL) interpreter |
| **9232** | ammonia plant operator |
| **9537** | ammunition assembler |
| **9412** | ammunition caster - foundry |
| **1215** | ammunition foreman/woman |
| **9537** | ammunition inspector |
| **9537** | ammunition loading inspector |
| **9537** | ammunition maker |
| **9537** | ammunition manufacturing inspector |
| **2262** | ammunition safety inspector |
| **9537** | ammunition salvage inspector |
| **1522** | ammunition storekeeper |
| **9537** | ammunition worker |
| **7311** | ammunition-assembling machine adjuster |
| **7311** | ammunition-loading machine adjuster |
| **3141** | amplification audiologist |
| **2242** | amplifier repairer |
| **9619** | ampoule filler |
| **9619** | ampoule inspector - pharmaceuticals and toiletries manufacturing |
| **6722** | amusement attraction operator |
| **6722** | amusement concession operator |
| **7514** | amusement machine route agent |
| **6722** | amusement park attendant |
| **6722** | amusement ride attendant |
| **6722** | amusement ride operator |
| **2133** | analogue amplifier design engineer |
| **2161** | analysis supervisor - statistics |
| **4163** | analyst - market research |
| **1526** | analyst, air transport schedules |
| **4166** | analyst, education policies |
| **1111** | analyst-accountant |
| **2112** | analytical biochemist |

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| **2112** | analytical chemist |
| **2211** | analytical chemistry technician |
| **2211** | analytical chemistry technologist |
| **3111** | anatomical pathologist |
| **3211** | anatomical pathology technologist |
| **2121** | anatomist |
| **3111** | anatomopathologist |
| **4011** | anatomy professor - university |
| **7531** | anchor-applicator operator - railway |
| **5123** | anchorman/woman |
| **4166** | andragogy specialist |
| **3124** | anesthesia assistant |
| **3214** | anesthesia technologist |
| **3111** | anesthesiologist |
| **3413** | anesthetic attendant - hospital |
| **3111** | anesthetist |
| **3111** | anesthetist-resuscitator |
| **9416** | angle shear operator - metal fabrication |
| **5136** | animal art painter |
| **5136** | animal art sculptor |
| **6563** | animal attendant |
| **6563** | animal attendants supervisor |
| **0821** | animal breeder |
| **3213** | animal care technician |
| **3213** | animal care technologist |
| **6563** | animal care worker (except farm) |
| **4423** | animal control inspector |
| **4423** | animal control officer |
| **4423** | animal control supervisor |
| **7444** | animal control trapper |
| **2121** | animal ecologist |
| **9462** | animal eviscerator - meat packing plant |
| **8252** | animal farm foreman/woman |
| **0821** | animal farmer |
| **9617** | animal feed sack filler |
| **2121** | animal geneticist |
| **6563** | animal groomer (except horses) |
| **6563** | animal health care assistant |
| **2222** | animal health inspector |
| **3213** | animal health technician |
| **3213** | animal health technician - agriculture |
| **3213** | animal health technologist |
| **3213** | animal health technologist supervisor |
| **8252** | animal husbandry foreman/woman |
| **2121** | animal nutritionist |
| **3213** | animal operating room attendant |
| **3114** | animal pathologist |
| **2222** | animal primary products inspector |
| **9462** | animal skinner - meat packing plant |
| **9462** | animal sticker - meat packing plant |
| **9462** | animal stunner |
| **2121** | animal taxonomist |
| **6563** | animal trainer (except horses or marine mammals) |
| **5226** | animal wrangler - motion pictures, broadcasting and performing arts |
| **5241** | animated cartoon artist |
| **5241** | animated cartoon artist - visual arts |
| **5241** | animated cartoon colourist |
| **5223** | animated cartoon inker |
| **5223** | animated cartoon painter |
| **5223** | animated cartoon technician |
| **5223** | animated cartoons inker and painter |
| **5241** | animation artist |
| **5223** | animation camera operator |
| **5223** | animation inker |
| **5241** | animation layout designer |
| **5223** | animation painter |
| **2174** | animation programmer |
| **5241** | animator - animated films |
| **4217** | animator - spiritual guidance |
| **9413** | annealer - glass products manufacturing |
| **9411** | annealer - primary metal processing |
| **9611** | annealer helper - primary metal processing |
| **9211** | annealing foreman/woman |
| **9211** | annealing foreman/woman - primary metal processing |
| **1513** | announcement deliverer - courier service |
| **1513** | announcement delivery person - courier service |
| **5231** | announcer |
| **1113** | annuity representative - investments |
| **9415** | anode adjuster - primary metal processing |
| **9411** | anode caster |
| **9411** | anode caster - primary metal processing |
| **9411** | anode operator |
| **9411** | anode paste plant operator |
| **9411** | anode press operator |
| **9536** | anodizer |
| **9211** | anodizing foreman/woman - primary metal processing |
| **1414** | answering service operator |
| **9537** | antenna assembler |
| **2133** | antenna engineer |
| **7441** | antenna installer - electronic equipment |
| **9523** | antenna-tuner inspector - electronic equipment manufacturing |
| **4169** | anthropologist |
| **4011** | anthropology professor - university |
| **9232** | antibiotics fermenter |
| **9619** | antichecking steel bander |
| **0431** | anti-gambling section inspector - police |
| **7322** | antique car body restorer |
| **0621** | antique dealer |
| **7322** | antique vehicle body restorer |
| **9534** | antiquer - furniture finishing |
| **9537** | anvil-seating press tender |
| **7384** | anvilsmith |
| **6733** | apartment building caretaker |
| **6733** | apartment building concierge |
| **6733** | apartment building maintenance worker |
| **6733** | apartment maintenance man/woman |
| **1224** | apartment rental agent |
| **0821** | apiarist |

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| **8431** | apiary technician |
| **8431** | apiary worker |
| **2121** | apiculture entomologist |
| **0821** | apiculturist |
| **4021** | apparel design teacher |
| **6316** | apparel-service and furnishings-service workers supervisor |
| **1228** | appeal judge - employment insurance |
| **1228** | appeal officer |
| **1228** | appeal officer - taxation |
| **4111** | appellate court judge |
| **0821** | apple grower |
| **8252** | apple orchard foreman/woman |
| **8611** | apple picker |
| **0821** | apple producer |
| **9461** | applesauce processor operator |
| **6222** | appliance buyer |
| **7301** | appliance repair contractor |
| **7301** | appliance repair shop foreman/woman |
| **7301** | appliance repair shop supervisor |
| **7332** | appliance repairer apprentice |
| **6421** | appliance salesperson - retail |
| **7332** | appliance service technician |
| **7332** | appliance service technician apprentice |
| **7332** | appliance servicer |
| **4021** | appliance servicing teacher - vocational institute |
| **0621** | appliance store manager |
| **2173** | application architect |
| **1452** | application clerk |
| **2174** | application programmer |
| **1434** | application reviewer - insurance |
| **2147** | application specific integrated circuit (ASIC) design engineer |
| **2283** | application tester |
| **2283** | application testing technician |
| **2171** | applications analyst - computer systems |
| **6221** | applications sales engineer |
| **4169** | applied anthropologist |
| **4021** | applied arts teacher - college level |
| **4169** | applied geographer |
| **4169** | applied linguist |
| **2161** | applied mathematician |
| **2114** | applied meteorologist |
| **2161** | applied statistician |
| **1414** | appointment clerk |
| **1241** | appointment secretary |
| **2131** | appraisal engineer |
| **2122** | appraisal forester |
| **1314** | appraisal technician |
| **1314** | appraiser (except customs) |
| **7315** | apprentice aircraft maintenance engineer (AME) |
| **7315** | apprentice aircraft mechanical systems mechanic |
| **7315** | apprentice AME (aircraft maintenance engineer) |
| **7332** | apprentice appliance service technician |
| **7231** | apprentice automotive machinist |
| **2244** | apprentice avionics technician |
| **6332** | apprentice baker - retail |
| **7271** | apprentice boat carpenter |
| **7281** | apprentice bricklayer |
| **7281** | apprentice brickmason |
| **6331** | apprentice butcher - retail or wholesale |
| **7314** | apprentice carman/woman - railway |
| **7271** | apprentice carpenter |
| **7271** | apprentice carpenter-joiner |
| **7247** | apprentice CATV (community antenna television) technician |
| **7282** | apprentice cement finisher |
| **7246** | apprentice communication electrician - switching |
| **7247** | apprentice community antenna television (CATV) technician |
| **7241** | apprentice construction electrician |
| **6322** | apprentice cook |
| **3221** | apprentice dental mechanic |
| **3223** | apprentice dental prosthesis maker |
| **3223** | apprentice dental technician |
| **6741** | apprentice dry cleaner |
| **7284** | apprentice drywall applicator |
| **7241** | apprentice electrician |
| **7246** | apprentice electrician - telecommunications equipment |
| **7318** | apprentice elevator mechanic |
| **6346** | apprentice embalmer |
| **7312** | apprentice farm equipment mechanic |
| **7312** | apprentice farm machinery mechanic |
| **7235** | apprentice fitter - shipbuilding |
| **7295** | apprentice floor covering installer |
| **7253** | apprentice gas fitter |
| **7292** | apprentice glazier |
| **7521** | apprentice heavy equipment operator |
| **7242** | apprentice industrial electrician |
| **2243** | apprentice industrial instrument mechanic |
| **7311** | apprentice industrial mechanic |
| **7294** | apprentice industrial painter and decorator |
| **2243** | apprentice instrument mechanic |
| **7293** | apprentice insulator |
| **7236** | apprentice ironworker |
| **6344** | apprentice jeweller |
| **7244** | apprentice line maintainer - electric power systems |
| **7244** | apprentice lineman/woman - electric power systems |
| **7245** | apprentice lineman/woman - telecommunications |
| **7231** | apprentice machinist |
| **7242** | apprentice marine electrician |
| **2274** | apprentice marine engineer officer |
| **7384** | apprentice marine repair technician |
| **7281** | apprentice mason |
| **2273** | apprentice master - minor waters |

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| **7235** | apprentice metal fabricator |
| **7235** | apprentice metal shipwright |
| **7236** | apprentice metal structure erector |
| **7311** | apprentice millwright |
| **8231** | apprentice miner |
| **7371** | apprentice mobile crane operator |
| **7321** | apprentice motor vehicle mechanic |
| **9412** | apprentice moulder - foundry |
| **3219** | apprentice ocularist |
| **3231** | apprentice optician |
| **7334** | apprentice outboard motor mechanic |
| **7322** | apprentice painter - motor vehicle repair |
| **7294** | apprentice painter and decorator |
| **7252** | apprentice pipefitter |
| **7252** | apprentice pipefitter-steamfitter |
| **7284** | apprentice plasterer |
| **7251** | apprentice plumber |
| **9241** | apprentice power dispatcher |
| **9241** | apprentice power dispatcher - electrical power systems |
| **9241** | apprentice power engineer |
| **7244** | apprentice power line repairer |
| **7243** | apprentice power system electrician |
| **7381** | apprentice press operator |
| **7381** | apprentice press operator - printing |
| **7381** | apprentice pressman/woman |
| **7381** | apprentice pressman/woman - printing |
| **7381** | apprentice printing press operator |
| **7384** | apprentice recreation vehicle mechanic |
| **7313** | apprentice refrigeration and air conditioning mechanic |
| **7291** | apprentice roofer |
| **7384** | apprentice saw repairer |
| **6621** | apprentice service station attendant |
| **7233** | apprentice sheet metal worker |
| **7291** | apprentice shingle roofer |
| **7235** | apprentice shipfitter |
| **7235** | apprentice ship's plater |
| **5223** | apprentice sign painter |
| **7335** | apprentice small engine mechanic |
| **7252** | apprentice sprinkler system fitter |
| **9241** | apprentice stationary engineer |
| **7252** | apprentice steamfitter |
| **7235** | apprentice steel fabricator |
| **7235** | apprentice structural metal and platework fabricator |
| **7235** | apprentice structural steel and platework fitter |
| **7235** | apprentice structural steel fabricator |
| **7246** | apprentice telephone switchman/woman |
| **7283** | apprentice tilesetter |
| **7233** | apprentice tinsmith |
| **7232** | apprentice tool and die maker |
| **7373** | apprentice water well driller |
| **7237** | apprentice welder |
| **0411** | apprenticeship training director - government services |
| **0411** | apprenticeship training service director - government services |
| **0823** | aquaculture manager |
| **0823** | aquaculture operator |
| **8613** | aquaculture support worker |
| **2221** | aquaculture technician |
| **8613** | aquaculture worker |
| **6563** | aquarist |
| **5212** | aquarium interpreter |
| **2121** | aquatic biologist |
| **2221** | aquatic biology technician |
| **4167** | aquatic program co-ordinator |
| **1113** | arbitrager |
| **9527** | arbor press tender - electrical equipment manufacturing |
| **2225** | arboriculturist |
| **2225** | arborist |
| **9416** | arc cutter - metal fabrication |
| **7237** | arc welder |
| **7237** | arc welder - pipeline |
| **9422** | arch cushion press operator - plastic manufacturing |
| **4169** | archaeological consultant |
| **4169** | archaeological field worker |
| **5212** | archaeological technician |
| **4169** | archaeologist |
| **5112** | archaeology curator |
| **5112** | archaeology museum curator |
| **4011** | archaeology professor - university |
| **4154** | archbishop |
| **9423** | arch-cushion-skiving machine operator |
| **4154** | archdeacon |
| **5251** | archer |
| **7445** | archery bow finisher |
| **7445** | archery bow finisher - sporting goods manufacturing |
| **9537** | archery bow limb aligner |
| **9537** | archery bow maker |
| **7445** | archery bow repairer |
| **7445** | archery bow repairer - sporting goods manufacturing |
| **9537** | archery bow string maker |
| **2151** | architect |
| **2231** | architectural and engineering technologists and technicians supervisor |
| **2251** | architectural assistant |
| **2251** | architectural design technician |
| **2251** | architectural design technologist |
| **2253** | architectural draftsperson |
| **2131** | architectural engineer |
| **0212** | architectural manager |
| **0212** | architectural service manager |
| **2151** | architectural standards specialist |
| **2251** | architectural technician |
| **2251** | architectural technologist |
| **4021** | architectural technology instructor |
| **5211** | archival assistant |

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| **0511** | archival document manager |
| **5211** | archival management technician |
| **5211** | archive assistant |
| **5211** | archive attendant |
| **5211** | archive technician |
| **0511** | archives chief |
| **1452** | archives clerk |
| **0511** | archives director |
| **0511** | archives manager |
| **5113** | archivist |
| **9221** | area co-ordinator - motor vehicle assembly |
| **9221** | area co-ordinator - motor vehicle manufacturing |
| **4163** | area development officer - government |
| **9241** | area dispatch chief operator |
| **9241** | area dispatch chief operator - electrical power systems |
| **9241** | area load centre dispatcher |
| **0122** | area manager - banking, credit and investment |
| **0132** | area manager - postal service |
| **0621** | area manager - retail store chain |
| **0601** | area sales manager |
| **0422** | area superintendent - schools |
| **6722** | arena ice patroller |
| **0714** | arena manager |
| **9525** | armature assembler - industrial electrical equipment |
| **9524** | armature bander |
| **9525** | armature coil former - industrial electrical equipment |
| **9525** | armature coil winder - industrial electric equipment |
| **9525** | armature inspector - industrial electrical equipment |
| **9525** | armature insulator - industrial electrical equipment |
| **7333** | armature repairman/woman |
| **9527** | armature tester |
| **9525** | armature winder - industrial electrical equipment |
| **7333** | armature winder repairer |
| **9524** | armature winder, small electric motor |
| **4313** | armour defence gunner |
| **0433** | armour officer |
| **6541** | armoured car driver |
| **6541** | armoured car guard |
| **4313** | armoured soldier |
| **3232** | aromatherapist |
| **5132** | arranger |
| **9537** | arrow assembler |
| **9411** | arsenic recovery operator |
| **5232** | art and photography model |
| **4166** | art co-ordinator - education |
| **5123** | art critic |
| **0621** | art dealer |
| **1451** | art department library clerk |
| **5131** | art director - motion pictures, broadcasting and performing arts |
| **5122** | art editor |
| **1123** | art educator - museum |
| **0511** | art gallery administrator |
| **0511** | art gallery assistant director |
| **0511** | art gallery chief curator |
| **5112** | art gallery conservator |
| **0511** | art gallery co-ordinator |
| **5112** | art gallery curator |
| **0511** | art gallery director |
| **0511** | art gallery manager |
| **0621** | art gallery manager - retail |
| **0511** | art gallery manager assistant |
| **5212** | art gallery preparator |
| **5212** | art gallery registrar |
| **5136** | art instructor |
| **5136** | art instructor (except primary, secondary, post-secondary education) |
| **5241** | art layout designer |
| **5111** | art librarian |
| **5112** | art object curator |
| **5212** | art objects preparator |
| **5212** | art restoration technician |
| **6421** | art sales consultant - retail |
| **6421** | art salesperson |
| **0651** | art school manager |
| **4032** | art teacher - elementary school |
| **4031** | art teacher - secondary school |
| **5136** | art teacher (except primary, secondary and post-secondary education) |
| **3144** | art therapist |
| **3144** | art therapists' supervisor |
| **3144** | art therapy consultant |
| **3144** | art therapy teacher (except education) |
| **5223** | art work assembler |
| **4112** | articling law student |
| **7512** | articulated bus operator |
| **5112** | artifact conservator |
| **3219** | artificial eye maker |
| **5244** | artificial flower presser |
| **6722** | artificial ice maker - rink |
| **8252** | artificial insemination service contractor |
| **8252** | artificial inseminator |
| **2173** | artificial intelligence (AI) designer |
| **2171** | artificial intelligence analyst |
| **2171** | artificial intelligence consultant |
| **3219** | artificial limb assembler |
| **3219** | artificial limb finisher |
| **3219** | artificial limb maker |
| **7283** | artificial marble setter |
| **9537** | artificial pearl maker |
| **7281** | artificial stone mason |
| **7281** | artificial stone setter |
| **9537** | artificial turf maker |
| **0433** | artillery officer |
| **4313** | artillery soldier |

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| **5244** | artisan |
| **5136** | artist |
| **1123** | artist agent |
| **1123** | artistic agent |
| **5244** | artistic bouquet designer |
| **5131** | artistic director - motion picture |
| **5132** | artistic director - music |
| **5244** | artistic floral arranger |
| **5244** | artistic floral bouquet designer |
| **5244** | artistic floral designer |
| **5241** | artistic illustrator |
| **5136** | artistic painter |
| **5136** | artistic printmaker |
| **5227** | artistic rigger |
| **0511** | arts administrator |
| **5254** | arts and crafts instructor |
| **5254** | arts and crafts leader |
| **5254** | arts and crafts leader - sports and recreation |
| **4167** | arts and crafts programs co-ordinator |
| **4031** | arts and crafts teacher - secondary school |
| **5244** | arts and crafts teacher (except education) |
| **0014** | arts and culture association chairperson |
| **5254** | arts and leisure leader |
| **5254** | arts and recreation leader |
| **0014** | arts association executive director |
| **9414** | asbestos board curer |
| **9414** | asbestos board machine operator |
| **9414** | asbestos board machinery setter |
| **9414** | asbestos brake lining finisher |
| **9415** | asbestos classifier |
| **9411** | asbestos dryer |
| **9415** | asbestos fibre inspector and tester |
| **7611** | asbestos fibre preparer |
| **9415** | asbestos grader |
| **7293** | asbestos insulator |
| **9211** | asbestos manufacturing foreman/woman |
| **9414** | asbestos mixer tender |
| **9611** | asbestos mould stripper |
| **9611** | asbestos moulder |
| **7611** | asbestos remover |
| **9441** | asbestos rope maker |
| **9411** | asbestos screen tender |
| **9414** | asbestos shingle assembler |
| **9414** | asbestos shingle cutter |
| **9611** | asbestos shingle floor hand |
| **9415** | asbestos shingle inspector |
| **9414** | asbestos shingle maker |
| **9414** | asbestos shingle presser |
| **9418** | asbestos wire finisher |
| **9611** | asbestos worker |
| **7611** | asbestos worker - construction |
| **9611** | asbestos worker - mineral processing |
| **9611** | asbestosboard sander |
| **9611** | asbestosboard shearer |
| **7452** | ash handler |
| **4011** | Asian studies professor - university |
| **5125** | ASL (American Sign Language) interpreter |
| **7291** | asphalt and gravel roofer |
| **7521** | asphalt batch plant operator |
| **9421** | asphalt coater - chemical processing |
| **7611** | asphalt cold patcher |
| **2131** | asphalt engineer |
| **9421** | asphalt heater tender |
| **7611** | asphalt mixer |
| **7302** | asphalt paving foreman/woman |
| **7302** | asphalt paving labour gang foreman/woman |
| **9421** | asphalt plant dryer tender |
| **7611** | asphalt plant labourer - construction |
| **7521** | asphalt plant operator |
| **7611** | asphalt raker |
| **7521** | asphalt roller operator |
| **7291** | asphalt roofer |
| **7611** | asphalt roofer helper |
| **7205** | asphalt roofers foreman/woman |
| **7205** | asphalt roofing contractor |
| **7205** | asphalt roofing foreman/woman |
| **9421** | asphalt roofing material mixer |
| **9421** | asphalt roofing materials inspector |
| **9537** | asphalt roofing slitter operator |
| **7291** | asphalt shingle roofer |
| **7291** | asphalt shingler |
| **7611** | asphalt spreader |
| **7521** | asphalt spreader operator |
| **7521** | asphalt street paver operator |
| **7611** | asphalt worker - road |
| **7521** | asphalt-grooving machine operator |
| **7521** | asphalt-paving machine operator |
| **7521** | asphalt-paving screed operator |
| **4313** | assault pioneer |
| **2212** | assayer |
| **2212** | assayer - mineralogy |
| **9522** | assembler - automobile assembly |
| **9523** | assembler - electronic equipment manufacturing |
| **6741** | assembler - laundry and dry cleaning |
| **9524** | assembler air conditioner |
| **7237** | assembler tack welder |
| **9537** | assembler, advertising buttons |
| **9537** | assembler, aluminum doors and windows |
| **9537** | assembler, arrow points |
| **9537** | assembler, automated valves |
| **9537** | assembler, brushes and mops |
| **9527** | assembler, dry cell batteries |
| **9537** | assembler, dust brushes |
| **9537** | assembler, earmuffs |
| **9524** | assembler, electric clothes dryers |
| **9524** | assembler, electric heaters |
| **9524** | assembler, electric lamps |
| **9524** | assembler, electric lawn mowers |
| **9524** | assembler, electric refrigerators |
| **9524** | assembler, heavy current switches |
| **9524** | assembler, large electrical appliances |
| **9537** | assembler, lint roller brushes |

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| **9535** | assembler, luggage bindings - plastic products manufacturing |
| **9523** | assembler, office machines |
| **9423** | assembler, rubber sponge gaskets |
| **9537** | assembler, shovel handles |
| **9537** | assembler, sponge mops |
| **9537** | assembler, sports headgear |
| **9523** | assembler, telecommunications equipment |
| **9537** | assembler, Thermos bottles |
| **9533** | assembler, wooden bucket staves |
| **9533** | assembler, wooden cases |
| **9533** | assembler, wooden crates |
| **9533** | assembler, wooden tank staves |
| **9522** | assembler-mechanic - motor vehicle manufacturing |
| **9214** | assemblers foreman/woman - rubber and plastic manufacturing |
| **9533** | assemblers lead hand - wood products manufacturing |
| **9217** | assemblers supervisor - fabric, fur and leather products manufacturing |
| **9214** | assemblers supervisor - rubber and plastic products manufacturing |
| **9222** | assembly and test electronic equipment manufacturing supervisor |
| **9222** | assembly and test foreman/woman - electronics manufacturing |
| **9222** | assembly and test supervisor |
| **9222** | assembly and test supervisor - electronics manufacturing |
| **9222** | assembly and testing supervisor - electronic equipment manufacturing |
| **9221** | assembly co-ordinator - motor vehicle manufacturing |
| **7316** | assembly fitter |
| **9221** | assembly foreman/woman - motor vehicle manufacturing |
| **9227** | assembly foreman/woman, clocks and watches |
| **9226** | assembly foreman/woman, helicopters |
| **9222** | assembly foreman/woman, semiconductors |
| **9523** | assembly inspector - electronic equipment manufacturing |
| **9532** | assembly inspector - furniture manufacturing |
| **9522** | assembly inspector - motor vehicle manufacturing |
| **9535** | assembly inspector - plastic manufacturing |
| **9524** | assembly inspector, electrical appliances |
| **9531** | assembly inspector, motorboats |
| **9531** | assembly inspector, wooden boats |
| **9531** | assembly laminator, boats |
| **9524** | assembly lead hand - electrical equipment manufacturing |
| **9524** | assembly lead hand, large electrical appliances |
| **9524** | assembly lead hand, small electrical appliances |
| **9524** | assembly line expediter - electrical equipment manufacturing |
| **9619** | assembly line general labourer |
| **9533** | assembly line gluer - wood products manufacturing |
| **9524** | assembly line inspector - electrical equipment manufacturing |
| **9535** | assembly line inspector - plastic manufacturing |
| **9524** | assembly line inspector and tester - electrical equipment manufacturing |
| **9536** | assembly line painter |
| **9524** | assembly line repairer, electrical appliances |
| **9423** | assembly line tire repairer |
| **9527** | assembly machine setter - electrical equipment manufacturing |
| **9527** | assembly machine set-up person - electrical equipment manufacturing |
| **7316** | assembly mechanic-fitter lead hand |
| **7301** | assembly mechanics foreman/woman |
| **9536** | assembly painter |
| **9537** | assembly press operator |
| **9537** | assembly press set-up operator |
| **9522** | assembly quality upgrader - motor vehicle manufacturing |
| **9531** | assembly repairer, boats |
| **9222** | assembly supervisor - electronic equipment manufacturing |
| **9221** | assembly supervisor - motor vehicle manufacturing |
| **9226** | assembly supervisor, helicopters |
| **9226** | assembly supervisor, mobile homes |
| **9226** | assembly supervisor, small engines |
| **9226** | assembly supervisor, tractor-trailers |
| **9523** | assembly tester - electronic equipment manufacturing |
| **9221** | assembly zone supervisor - motor vehicle manufacturing |
| **1228** | assessing officer - taxation |
| **1228** | assessing unit head - taxation |
| **1431** | assessment clerk |
| **1212** | assessment clerks supervisor |
| **1314** | assessor (except tax) |
| **0111** | assigned public accountants chief |
| **1212** | assistant accountant |
| **0111** | assistant accounting manager |
| **0311** | assistant administrator for nursing |
| **5241** | assistant animator - animated films |
| **1314** | assistant appraiser |
| **5113** | assistant archivist |
| **0511** | assistant art gallery administrator |
| **0511** | assistant art gallery director |
| **1212** | assistant bank accountant |
| **0631** | assistant bar manager |
| **9473** | assistant binder |
| **9432** | assistant bleacher operator - pulp and paper |
| **9473** | assistant bookbinder |

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| **0122** | assistant branch manager - banking, credit and investment |
| **1123** | assistant brand manager - advertising |
| **9461** | assistant brewer - food and beverage processing |
| **6222** | assistant buyer |
| **5222** | assistant camera operator |
| **3217** | assistant cardiology supervisor |
| **6321** | assistant chef |
| **0411** | assistant chief health inspector - government services |
| **0431** | assistant chief inspector - police |
| **0012** | assistant chief statistician - government services |
| **9433** | assistant coating operator - pulp and paper |
| **0012** | assistant comptroller general - government services |
| **0122** | assistant consumer credit manager |
| **1111** | assistant controller |
| **6322** | assistant cook |
| **0122** | assistant corporate banking services manager |
| **4112** | assistant corporate counsel |
| **5243** | assistant costume designer |
| **0122** | assistant credit manager |
| **4112** | Assistant Crown Attorney |
| **5112** | assistant curator |
| **0421** | assistant dean - college or university |
| **0621** | assistant department manager - retail |
| **0012** | assistant deputy minister |
| **0012** | assistant deputy minister - government services |
| **0431** | assistant deputy police chief |
| **1227** | assistant deputy registrar - courts |
| **9432** | assistant digester operator |
| **9432** | assistant digester operator - pulp and paper |
| **5131** | assistant director |
| **5131** | assistant director - motion pictures, broadcasting and performing arts |
| **0511** | assistant director of archives |
| **0511** | assistant director of historical park |
| **0311** | assistant director of nursing |
| **0311** | assistant director of nursing services |
| **0413** | assistant director of school services |
| **0413** | assistant director of school services - public administration |
| **0422** | assistant district school superintendent |
| **8232** | assistant driller - offshore drilling rig |
| **8232** | assistant driller - oil and gas well drilling |
| **4214** | assistant ECE |
| **5122** | assistant editor |
| **2274** | assistant engineer - water transport |
| **0013** | assistant executive director - financial, communications and other business services |
| **0016** | assistant executive director - goods production, utilities, transportation and construction |
| **0012** | assistant executive director - government services |
| **0014** | assistant executive director - health, education, social and community services and membership organizations |
| **6312** | assistant executive housekeeper |
| **1112** | assistant financial analyst |
| **1212** | assistant financial institution accountant - financial services |
| **6346** | assistant funeral director |
| **0731** | assistant general agent - railway |
| **0012** | assistant general director - government services |
| **4112** | assistant general solicitor |
| **6221** | assistant grain elevator manager |
| **2222** | assistant grain inspector |
| **3011** | assistant head nurse |
| **6312** | assistant housekeeping manager |
| **4112** | assistant legal advisor |
| **0631** | assistant manager - bar |
| **0621** | assistant manager - food store |
| **0621** | assistant manager - retail |
| **9461** | assistant miller - food and beverage processing |
| **4154** | assistant minister - religion |
| **0511** | assistant museum administrator |
| **5112** | assistant museum curator |
| **0511** | assistant museum director |
| **5211** | assistant music librarian |
| **9472** | assistant newspaper make-up man/woman |
| **0311** | assistant nursing services administrator |
| **8222** | assistant offshore drilling rig superintendent |
| **0122** | assistant operations manager - banking, credit and investment |
| **9232** | assistant operator - chemical processing |
| **3234** | assistant paramedic |
| **6313** | assistant passenger service co-ordinator - railway |
| **1432** | assistant paymaster |
| **1223** | assistant personnel officer |
| **8222** | assistant platform superintendent |
| **0431** | assistant police commissioner |
| **1214** | assistant postmaster/mistress |
| **7381** | assistant press operator - printing |
| **1123** | assistant press secretary |
| **7381** | assistant pressman/woman |
| **7381** | assistant pressman/woman - printing |
| **0422** | assistant principal |
| **4011** | assistant professor - university |
| **4112** | assistant regional counsel |
| **0122** | assistant regional manager - banking |
| **1227** | assistant registrar - courts |
| **5212** | assistant registrar - museum |
| **0422** | assistant school district superintendent |
| **0714** | assistant shopping centre manager |
| **0714** | assistant shopping mall manager |
| **5225** | assistant sound editor |

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| **0731** | assistant superintendent - railway |
| **0422** | assistant superintendent of schools |
| **8222** | assistant toolpusher - offshore drilling rig |
| **0731** | assistant traffic manager - transportation |
| **7244** | assistant transmission lineman/woman - electric power systems |
| **0731** | assistant transportation manager |
| **0111** | assistant treasurer - finances |
| **0012** | assistant undersecretary of state |
| **1313** | assistant underwriter - insurance |
| **6513** | assistant waiter/waitress - food and beverage services |
| **0714** | assistant warehouse manager |
| **3237** | assistive listening device technician |
| **2161** | associate actuary |
| **6232** | associate broker - real estate |
| **4111** | associate chief justice |
| **4112** | associate counsel |
| **5122** | associate editor |
| **4112** | associate lawyer |
| **4112** | associate legal advisor |
| **4112** | associate legal counsel |
| **5111** | associate librarian |
| **4011** | associate professor - university |
| **0421** | associate registrar |
| **0422** | associate superintendent - schools |
| **0423** | association director |
| **0014** | association executive director |
| **0423** | association manager |
| **2121** | astrobiologist |
| **6564** | astrologer |
| **6564** | astrologist |
| **2115** | astronaut |
| **2111** | astronomer |
| **4011** | astronomy professor - university |
| **2111** | astrophysicist |
| **2272** | ATC (air traffic controller) |
| **5251** | athlete |
| **1123** | athlete agent |
| **1123** | athletes manager |
| **5252** | athletic boxing trainer |
| **6316** | athletic club attendant supervisor |
| **6722** | athletic equipment attendant |
| **6722** | athletic equipment custodian |
| **0714** | athletic facility manager |
| **3144** | athletic therapist |
| **3144** | athletic trainer - therapy |
| **5252** | athletics coach |
| **5254** | athletics instructor |
| **5253** | athletics judge |
| **5252** | athletics team coach |
| **1434** | ATM (automatic teller machine) clerk |
| **6541** | ATM (automatic teller machine) guard |
| **2112** | atmospheric chemist |
| **2111** | atmospheric physicist |
| **9537** | atomic fuel bundle assembler |
| **9535** | atomizer cap machine tender |
| **9611** | atomizer operator - primary metal and mineral products processing |
| **4168** | attaché |
| **6722** | attendance checker |
| **1211** | attendance records supervisor |
| **4412** | attendant for persons with a visual impairment - home care |
| **4412** | attendant for persons with disabilities - home care |
| **6742** | attendant, suntan salon |
| **4112** | attorney |
| **0011** | attorney general |
| **4112** | attorney-at-law |
| **4112** | attorney's assistant chief agent |
| **4411** | au pair |
| **4411** | au pair girl |
| **1411** | auction clerk |
| **6411** | auctioneer |
| **2241** | audio amplifier repairer - production |
| **2133** | audio engineer - electricity and electronics |
| **5225** | audio engineer - recording studio |
| **6421** | audio equipment consultant - retail |
| **6421** | audio equipment salesperson |
| **6421** | audio equipment salesperson - retail |
| **0621** | audio equipment store manager |
| **5225** | audio operator |
| **5225** | audio operator assistant |
| **5225** | audio recording studio operator |
| **2242** | audio stereo technician |
| **5225** | audio technician |
| **3237** | audiological technician |
| **3141** | audiologist |
| **3141** | audiology clinician |
| **3141** | audiology specialist |
| **3237** | audiology technician |
| **3237** | audiometric aide |
| **3237** | audiometric assistant |
| **3237** | audiometric technician |
| **3237** | audiometric technician - public health |
| **3237** | audiometrician |
| **3237** | audiometrist |
| **3237** | audiometrist aide |
| **2242** | audio-video repair technician |
| **2242** | audio-video service technician |
| **5227** | audiovisual (AV) assistant - motion pictures and broadcasting |
| **2242** | audiovisual (AV) equipment installer and repairer |
| **2242** | audiovisual (AV) equipment repair supervisor |
| **5131** | audiovisual (AV) producer |
| **5225** | audiovisual (AV) technician |
| **6721** | audiovisual helper |
| **0111** | audit and compliance director |
| **1431** | audit clerk |
| **0125** | audit firm manager |
| **1228** | audit reviewer - taxation |
| **1111** | audit unit head - taxation |

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| **1431** | auditing clerk |
| **0111** | auditing department manager |
| **0125** | auditing firm manager |
| **1111** | auditor - finance |
| **1111** | auditor-CA (chartered accountant) |
| **1111** | auditor-chartered accountant (CA) |
| **1111** | auditors supervisor |
| **3232** | auriculotherapist |
| **5121** | author |
| **5132** | author-composer-performer |
| **1452** | authorization clerk |
| **1123** | author's agent |
| **9522** | auto assembly worker |
| **7237** | auto body solderer |
| **6732** | auto care worker |
| **0621** | auto dealership manager |
| **6732** | auto detailer |
| **7322** | auto glass installer |
| **0621** | auto glass repair shop manager |
| **9522** | auto parts assembler |
| **1522** | auto parts clerk - retail |
| **7231** | auto parts machine shop inspector |
| **0621** | auto rustproofing shop manager |
| **7322** | autobody mechanic |
| **7322** | autobody repairer |
| **7322** | autobody technician |
| **7322** | autobody technician - collision |
| **7322** | autobody technician - refinishing |
| **7322** | autobody worker |
| **9421** | autoclave operator - chemical processing |
| **9441** | autoclave tender - textile manufacturing |
| **4216** | auto-driving instructor |
| **9472** | automated letterer-engraver |
| **9417** | automated machine tool set-up operator |
| **9537** | automated sphere-polishing machine operator |
| **7452** | automated storage and retrieval system operator |
| **9241** | automated substation operator - electrical power systems |
| **7237** | automated welding machine operator - flash butt process |
| **7531** | automatic anchor-applicator operator - railway |
| **9418** | automatic bolt machine operator |
| **9435** | automatic carton maker - paper converting |
| **9435** | automatic carton-making machine operator - paper converting |
| **9412** | automatic casting machine operator - foundry |
| **9418** | automatic coil machine operator |
| **9527** | automatic coil winder - electrical equipment manufacturing |
| **9524** | automatic coil winder operator - electrical equipment manufacturing |
| **9418** | automatic coiling machine operator - metal products manufacturing |
| **9523** | automatic component-assembly-machine operator - electronic equipment manufacturing |
| **9416** | automatic cut-off operator - metal fabrication |
| **9416** | automatic cut-off saw operator - metal products manufacturing |
| **7441** | automatic door system installer |
| **7441** | automatic door system installer and servicer |
| **7441** | automatic door system servicer |
| **9442** | automatic embroidery machine tender |
| **7441** | automatic garage door installer |
| **9413** | automatic glass-cutting table operator |
| **9414** | automatic jigger man/woman - clay products |
| **9414** | automatic jigger operator - clay products |
| **7311** | automatic knitting machine pattern setter |
| **9537** | automatic lathe operator - clock |
| **9612** | automatic machine polisher - metal products manufacturing |
| **9418** | automatic machine polisher, metal |
| **9412** | automatic moulding machine operator - foundry |
| **9437** | automatic nailing machine operator - woodworking |
| **9536** | automatic paint-sprayer operator |
| **7452** | automatic pallet equipment operator |
| **9435** | automatic paper-cutting machine operator - paper converting |
| **7311** | automatic pinsetting machine installer and repairer |
| **9441** | automatic quiller tender - textile manufacturing |
| **9611** | automatic scrap washer operator |
| **9417** | automatic screw machine operator |
| **9413** | automatic sealing gun operator - glass |
| **9446** | automatic sewing machine operator |
| **9437** | automatic shaper operator - woodworking |
| **9442** | automatic stocking loom tender |
| **1434** | automatic teller machine (ATM) clerk |
| **6541** | automatic teller machine (ATM) guard |
| **2242** | automatic teller machine (ATM) servicer |
| **9417** | automatic transfer machine operator - metal machining |
| **7321** | automatic transmission mechanic - motor vehicle |
| **7321** | automatic transmission technician - motor vehicles |
| **9434** | automatic veneer clipper tender - wood processing |
| **7237** | automatic welding machine operator |
| **9523** | automatic wire-wrapping machine tender - electronic equipment manufacturing |
| **5111** | automation librarian |
| **2232** | automation technologist |
| **9522** | automobile accessories installer |
| **9522** | automobile accessories installer and repairer |
| **6421** | automobile accessories salesperson - retail |
| **1313** | automobile and home insurance consultant |

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|---|---|
| 1314 | automobile appraiser |
| 9522 | automobile assembler |
| 9221 | automobile assembly foreman/woman |
| 9536 | automobile assembly line painter |
| 9536 | automobile assembly painter |
| 9522 | automobile assembly worker |
| 0014 | automobile association executive director |
| 7612 | automobile body repairer helper |
| 7322 | automobile body repairman/woman |
| 7612 | automobile bumper straightener |
| 7511 | automobile carrier driver |
| 1312 | automobile claims technical adjuster |
| 6732 | automobile cleaner |
| 7322 | automobile damage repair estimator |
| 6552 | automobile dealerships service representative |
| 9536 | automobile dipper-painter |
| 0651 | automobile driver training school manager |
| 0651 | automobile driving school manager |
| 9522 | automobile engine tester - automobile assembly |
| 9522 | automobile final inspector - automobile assembly |
| 9526 | automobile gear assembler |
| 9522 | automobile hood assembler - motor vehicle manufacturing |
| 9522 | automobile inspector - motor vehicle manufacturing |
| 9522 | automobile inspector and tester - motor vehicle manufacturing |
| 6231 | automobile insurance agent |
| 6231 | automobile insurance salesman/woman |
| 0911 | automobile interior fittings production manager |
| 6421 | automobile leasing agent |
| 6421 | automobile leasing representative |
| 7535 | automobile lubricator |
| 7321 | automobile mechanic |
| 7301 | automobile mechanics foreman/woman |
| 9536 | automobile painter - motor vehicle manufacturing |
| 1522 | automobile parts counter sales clerk - retail |
| 7322 | automobile polisher-sander - motor vehicle repair |
| 0911 | automobile production manager |
| 5251 | automobile racer |
| 9522 | automobile radio and accessories installer - motor vehicle manufacturing |
| 0621 | automobile repair garage manager |
| 0621 | automobile repair shop manager |
| 4421 | automobile repossessor |
| 6421 | automobile sales representative - retail |
| 6421 | automobile salesperson |
| 7321 | automobile service mechanic |
| 0621 | automobile servicing manager |
| 9214 | automobile tire builders foreman/woman |
| 7511 | automobile transport driver |
| 1313 | automobile underwriter - insurance |
| 6345 | automobile upholsterer |
| 7445 | automobile wrecker |
| 6421 | automobile-rental counter representative |
| 7321 | automotive air conditioning mechanic |
| 9522 | automotive assembler - motor vehicle manufacturing |
| 7322 | automotive body mechanic |
| 7322 | automotive body painter |
| 7301 | automotive body repair foreman/woman |
| 7301 | automotive body repair shop supervisor |
| 7322 | automotive body repairer |
| 7322 | automotive body repairer-painter |
| 7301 | automotive body shop foreman/woman |
| 7301 | automotive body shop supervisor |
| 7322 | automotive body technician |
| 7321 | automotive brake mechanic |
| 7321 | automotive brake repairer |
| 7321 | automotive brake specialist |
| 7321 | automotive carburetor mechanic |
| 7445 | automotive dismantler |
| 9535 | automotive door panelling assembler - plastic products manufacturing |
| 7321 | automotive drive trains technician |
| 7321 | automotive electrical and tune-up service technician |
| 7321 | automotive electrical mechanic |
| 7321 | automotive electrical technician |
| 7612 | automotive electrician helper |
| 9522 | automotive electronic accessories installer and repairer - motor vehicle manufacturing |
| 9526 | automotive engine accessories assembler |
| 9526 | automotive engine assembler |
| 7321 | automotive engine mechanic inspector |
| 9522 | automotive engine quality control inspector |
| 9526 | automotive engine quality-control assembly inspector |
| 7301 | automotive engine repair foreman/woman |
| 2132 | automotive engineer |
| 7322 | automotive glass technician |
| 7201 | automotive machine shop foreman/woman |
| 7231 | automotive machinist |
| 7445 | automotive maintenance equipment servicer |
| 7321 | automotive mechanic |
| 7612 | automotive mechanic helper |
| 7321 | automotive mechanical repairer |
| 7535 | automotive muffler installer |
| 7322 | automotive painter - motor vehicle repair |
| 7322 | automotive painter apprentice |
| 7322 | automotive painting and refinishing technician |
| 1522 | automotive parts clerk - retail |
| 6411 | automotive parts sales representative - wholesale (non-technical) |
| 6411 | automotive parts salesperson - wholesale |
| 1522 | automotive partsperson - retail |
| 1522 | automotive partsperson apprentice |

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| 9526 | automotive production fitter |
| 9526 | automotive radiator assembler |
| 7535 | automotive radiator installer |
| 7535 | automotive radiator installer - automotive repair |
| 7321 | automotive radiator mechanic |
| 7321 | automotive radiator mechanic apprentice |
| 7321 | automotive radiator repairer |
| 7301 | automotive repair and service shop supervisor |
| 4021 | automotive repair instructor - community college |
| 7322 | automotive repair shop estimator |
| 7321 | automotive repairer |
| 9423 | automotive rubber parts cutter |
| 7301 | automotive service mechanics foreman/woman |
| 7301 | automotive service mechanics supervisor |
| 7321 | automotive service technician |
| 7321 | automotive service technician - electrical and fuel systems |
| 7321 | automotive service technician - fuel and electronics systems |
| 7321 | automotive service technician - steering, suspension and brakes |
| 7321 | automotive service technician - transmission |
| 7321 | automotive service technician apprentice |
| 7535 | automotive shock absorber installer |
| 7535 | automotive spring installer |
| 7321 | automotive technician - air conditioning system |
| 7321 | automotive technician - automatic transmission systems |
| 7321 | automotive technician - brakes systems |
| 7321 | automotive technician - electrical and electronic systems |
| 7321 | automotive technician - engine and fuel systems |
| 7321 | automotive technician - front-end systems |
| 7321 | automotive technician - fuel systems |
| 7321 | automotive technician - standard transmission systems |
| 7321 | automotive technician - transmission systems |
| 7301 | automotive testing shop supervisor |
| 6345 | automotive upholsterer |
| 7321 | automotive vehicle tester |
| 7321 | automotive vehicle testing mechanic |
| 9525 | automotive wiring harness inspector - industrial electrical equipment |
| 7333 | automotive-generator and starter repairer |
| 6421 | automotives sales consultant |
| 3414 | autopsy assistant |
| 3414 | autopsy attendant |
| 3111 | autopsy pathologist |
| 3414 | autopsy technician |
| 3211 | autopsy technologist - medical laboratory |
| 9241 | auxiliary equipment operator |
| 9411 | auxiliary equipment operator - primary metal processing |
| 9241 | auxiliary plant operator |
| 5227 | AV (audiovisual) assistant |
| 5225 | AV (audiovisual) technician |
| 2255 | avalanche controller |
| 2255 | avalanche observer |
| 3114 | avian veterinarian |
| 5112 | aviation and space museum curator |
| 2244 | aviation electrical components technician |
| 2244 | aviation electronic components technician |
| 2244 | aviation instrument technician |
| 7231 | aviation machinist |
| 7315 | aviation maintenance inspector |
| 7315 | aviation mechanical component shop technician |
| 3219 | aviation medicine technician |
| 9536 | aviation painter |
| 1522 | aviation partsperson |
| 0421 | aviation school manager |
| 7237 | aviation welding technician |
| 2244 | avionics and electronics calibration specialist |
| 9523 | avionics assembler |
| 2133 | avionics engineer |
| 9523 | avionics equipment assembler |
| 2244 | avionics inspector |
| 2244 | avionics maintenance technician |
| 2244 | avionics mechanic |
| 1215 | avionics service supervisor |
| 2244 | avionics systems installer |
| 2244 | avionics technician |
| 7445 | awning and tent repairer |
| 7441 | awning erector |
| 9537 | awning frame assembler |
| 7441 | awning installer |
| 7611 | awning installer helper |
| 9537 | awning maker, aluminum |
| 9522 | axle assembler - automobile assembly |
| 9418 | axle cutter |
| 9417 | axle lathe operator |
| 9442 | Axminster carpet weaver |
| 3232 | ayurvedic practitioner |

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| 9537 | baby carriage assembler |
| 9227 | baby carriage assembly foreman/woman |
| 4214 | baby-care worker |
| 4214 | baby-care worker assistant |
| 4214 | baby-care workers supervisor |
| 4411 | babysitter |
| 4411 | babysitter - fitness centre |
| 4411 | babysitter - shopping centre |
| 4411 | babysitting caregiver |
| 6533 | baccarat croupier |

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| 9619 | back padder - furniture manufacturing |
| 9423 | back strip machine tender - rubber products manufacturing |
| 9441 | back tender - cloth printing |
| 9433 | back tender, paper machine |
| 8411 | backfill plant operator - underground mining |
| 8411 | backfiller - underground mining |
| 5241 | background artist |
| 7312 | backhoe mechanic |
| 7521 | backhoe operator |
| 9421 | backing-in machine tender |
| 9523 | backplane and frame wiring operator |
| 5133 | back-up musician |
| 9461 | bacon curer |
| 9465 | bacon grader |
| 2221 | bacteriological technician |
| 2221 | bacteriological technologist |
| 2121 | bacteriologist |
| 2121 | bacteriologist - animal health |
| 4011 | bacteriology professor - university |
| 5251 | badminton player |
| 6622 | bag boy/girl |
| 6622 | bag clerk |
| 9619 | bag liner - packaging |
| 9422 | bag machine operator |
| 5244 | bag maker - arts and crafts |
| 9435 | bag maker - paper converting |
| 9435 | bag repairer - paper products |
| 9446 | bag sewer - textile manufacturing |
| 9446 | bag sewer, leather |
| 6332 | bagel baker |
| 6332 | bagel maker |
| 6523 | baggage agent - airline |
| 6524 | baggage agent - railway |
| 6524 | baggage agent (except airline) |
| 6524 | baggage clerk (except airline) |
| 6721 | baggage handler |
| 6313 | baggage handler supervisor |
| 7534 | baggage loader - air transport |
| 6721 | baggage master |
| 6721 | baggage porter |
| 6313 | baggage porter supervisor |
| 6523 | baggage tracer - airline |
| 6523 | baggage tracing agent - airline |
| 9617 | bagger - food and beverage processing |
| 6741 | bagger - laundry and dry cleaning |
| 9619 | bagging machine feeder |
| 9461 | bagging machine setter - food and beverage processing |
| 9461 | bagging machine set-up man - food and beverage processing |
| 9461 | bagging machine set-up man/woman - food and beverage processing |
| 9611 | baghouse attendant - mineral processing |
| 9411 | baghouse operator |
| 9422 | bag-making machine operator - plastic manufacturing |
| 9435 | bag-making machine set-up operator - paper converting |
| 9614 | bag-making machine tender helper |
| 4421 | bailiff |
| 9422 | bakelite mixer operator - plastic manufacturing |
| 9461 | Bake-off equipment tender - food and beverage processing |
| 6332 | baker |
| 6332 | baker - retail |
| 6332 | baker apprentice |
| 9617 | baker helper |
| 6622 | bakery assistant - food store |
| 6332 | bakery bench hand |
| 6421 | bakery clerk |
| 6421 | bakery counter clerk |
| 7514 | bakery deliveryman/woman |
| 0621 | bakery department manager |
| 9213 | bakery foreman/woman - food and beverage processing |
| 6421 | bakery goods sales clerk |
| 9617 | bakery labourer |
| 9461 | bakery machine operator - food and beverage processing |
| 7311 | bakery machinery mechanic |
| 0621 | bakery manager - food store |
| 0621 | bakery manager - retail |
| 9213 | bakery plant supervisor |
| 9617 | bakery products bander |
| 9617 | bakery products divider - food and beverage processing |
| 9617 | bakery products packager |
| 9617 | bakery products wrapper |
| 7514 | bakery route salesman/woman |
| 6332 | bakery supervisor |
| 6332 | bakery supervisor - retail |
| 6211 | bakery supervisor - supermarket |
| 9213 | baking and confectionery making foreman/woman |
| 9213 | baking foreman/woman - food and beverage processing |
| 5244 | balalaika maker |
| 1431 | balance clerk |
| 9527 | balancing machine operator - electrical equipment manufacturing |
| 9527 | balancing machine operator - small electric motors |
| 9527 | balancing machine tender - electrical equipment manufacturing |
| 9611 | balcony labourer - glass manufacturing |
| 9611 | balcony worker - glass manufacturing |
| 9441 | bale breaker - textile manufacturing |
| 9616 | bale checker - textile processing |
| 9441 | bale-breaker tender - textile manufacturing |
| 8431 | baler - agriculture |
| 9432 | baler - pulp and paper |
| 9619 | baler tender |

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| **9619** | baler tender - packaging |
| **9433** | balerman/woman - pulp and paper |
| **9619** | balerworker |
| **8431** | baling machine operator - farm |
| **9615** | baling machine tender - rubber and plastic products manufacturing |
| **9619** | baling press tender - printing |
| **9433** | baling press tender - pulp and paper |
| **9615** | baling press tender - rubber and plastic products manufacturing |
| **9226** | ball and roller-bearings assembly foreman/woman |
| **9537** | ball bearing inspector |
| **9537** | ball bearing tester |
| **9442** | ball fringe machine tender |
| **9211** | ball mill foreman/woman - mineral products processing |
| **9611** | ball mill helper - mineral products processing |
| **9611** | ball mill labourer - mineral products processing |
| **9411** | ball mill operator |
| **9611** | ball mill worker - mineral products processing |
| **9619** | ball weigher - toy manufacturing |
| **8412** | ballast control operator - offshore drilling rig |
| **7531** | ballast regulator operator - railway |
| **9524** | ballast transformer assembler |
| **9524** | ballast transformer tester |
| **7531** | ballast-equalizer operator - railway |
| **7531** | ballast-leveller operator - railway |
| **5134** | ballerina |
| **0512** | ballet company director |
| **5134** | ballet dancer |
| **5134** | ballet master |
| **5134** | ballet teacher |
| **7231** | ballistic laboratory machinist |
| **2115** | ballistician |
| **2115** | ballistics examiner |
| **9615** | balloon collar roller - rubber products manufacturing |
| **9615** | balloon form stripper and cleaner - rubber products manufacturing |
| **9615** | balloon leacher and curer - rubber products manufacturing |
| **6532** | balloon pilot |
| **9471** | balloon printer |
| **5134** | ballroom dancing teacher |
| **9423** | banbury machine operator - rubber products manufacturing |
| **9422** | banbury mixer operator - plastic manufacturing |
| **9423** | banbury mixer operator - rubber products manufacturing |
| **9422** | banbury operator - plastic manufacturing |
| **9423** | banbury operator - rubber products manufacturing |
| **1221** | band administrator |
| **9423** | band assembler - rubber products manufacturing |
| **5132** | band conductor |
| **5132** | band director |
| **0012** | band manager - First Nations |
| **9619** | band nailer - wood products |
| **9437** | band resaw operator - woodworking |
| **9437** | band ripsaw operator - woodworking |
| **9437** | band saw operator - woodworking |
| **9437** | band saw tender - woodworking |
| **9437** | band scroll saw operator - woodworking |
| **9423** | band stock preparer - rubber products manufacturing |
| **9619** | bander, paper goods |
| **9617** | banding machine tender - tobacco products |
| **9437** | banding machine tender - woodworking |
| **9442** | band-knitting machine operator |
| **5132** | bandmaster |
| **7452** | bandoleer packer - explosives manufacturing |
| **9619** | bandoleer straightener-stamper |
| **9437** | band-sawing machine tender - woodworking |
| **1111** | bank branch accountant |
| **0122** | bank branch manager |
| **1434** | bank clerk |
| **1212** | bank clerks supervisor |
| **0013** | bank credit vice-president |
| **6551** | bank customer service officer |
| **0122** | bank director |
| **1114** | bank inspector |
| **0122** | bank manager |
| **1513** | bank messenger |
| **5241** | bank note designer |
| **0013** | bank president |
| **1111** | bank reserves auditor |
| **1513** | bank runner |
| **6551** | bank teller |
| **0122** | banking accounts manager |
| **6235** | banking accounts officer |
| **0122** | banking operations manager |
| **1111** | bankruptcy trustee |
| **6513** | banquet captain |
| **6321** | banquet chef |
| **6322** | banquet cook |
| **6513** | banquet headwaiter/headwaitress |
| **0631** | banquet manager |
| **6721** | banquet porter |
| **6513** | banquet server |
| **6513** | banquet waiter/waitress |
| **9533** | banquette assembler - wood product manufacturing |
| **6512** | bar attendant |
| **6711** | bar helper |
| **0631** | bar manager |
| **9231** | bar mill finisher - primary metal processing |
| **6513** | bar service waiter/waitress |
| **6512** | bar steward |
| **9418** | barbed wire machine tender |

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|---|---|
| 6341 | barber |
| 6341 | barber apprentice |
| 0651 | barber shop manager |
| 1121 | bargaining agent |
| 7533 | barge captain |
| 7532 | barge deckhand |
| 7451 | barge loader |
| 7533 | barge operator |
| 6711 | barista |
| 5133 | baritone |
| 6512 | barkeeper |
| 9434 | barker operator |
| 9434 | barker operator - wood processing |
| 9614 | barking machine cleaner - wood processing |
| 9434 | barking machine operator - wood processing |
| 6512 | barmaid |
| 6512 | barman/barwoman |
| 8431 | barn worker |
| 9537 | barometer assembler |
| 9437 | barrel assembler |
| 9619 | barrel charrer |
| 9617 | barrel cleaner - food and beverage processing |
| 9437 | barrel cooper - woodworking |
| 9437 | barrel end machine tender - woodworking |
| 9437 | barrel end sawyer |
| 9617 | barrel filler - food and beverage processing |
| 9437 | barrel heading sawyer |
| 9533 | barrel inspector - wood products manufacturing |
| 9619 | barrel liner, hand |
| 9417 | barrel rifler |
| 9533 | barrel stave assembler, wood |
| 9619 | barrel stave leveller - wood products manufacturing |
| 9619 | barrel straightener |
| 9417 | barrel threader, small arms |
| 4112 | barrister |
| 4112 | barrister and solicitor |
| 9411 | bar-straightening machine operator - metal processing |
| 6512 | bartender |
| 6711 | bartender helper |
| 6512 | bartenders supervisor |
| 9527 | base filler - electrical equipment manufacturing |
| 9537 | baseball centre winder |
| 5252 | baseball coach |
| 9619 | baseball glove shaper |
| 9537 | baseball maker |
| 5252 | baseball manager-coach |
| 5251 | baseball player |
| 5252 | baseball scout |
| 5252 | baseball team coach |
| 9527 | base-filling machine operator - electrical equipment manufacturing |
| 9523 | base-filling machine operator - electronic equipment manufacturing |
| 9527 | base-filling machine tender - electrical equipment manufacturing |
| 9463 | basket filter tender - fish and seafood processing |
| 9437 | basket machine operator - woodworking |
| 7441 | basket weave fence erector |
| 5244 | basket weaver |
| 9537 | basketball coverer |
| 5251 | basketball player |
| 5252 | basketball scout |
| 5252 | basketball team coach |
| 5133 | bass |
| 5133 | bass drum teacher - private, conservatory or studio lessons |
| 5133 | bass player |
| 5133 | bassoon teacher - private, conservatory or studio lessons |
| 9446 | basting machine operator - sewing |
| 9446 | basting sewing machine operator, automatic |
| 9432 | batch digester operator |
| 9613 | batch dryer tender helper |
| 9441 | batch dyer - textile manufacturing |
| 9421 | batch mixer - chemical processing |
| 9235 | batch operator - pulp and paper |
| 9413 | batch plant tender - glass |
| 9432 | batch process cook - pulp and paper |
| 9421 | batch still operator |
| 9232 | batching chemical process operator |
| 9232 | batching process chief operator |
| 9441 | bater - hide and pelt processing |
| 9613 | bath mix solvent recoverer |
| 7441 | bathtub liner installer |
| 9536 | bathtub refinisher |
| 9536 | bathtub varnisher |
| 5244 | batik artisan |
| 5134 | baton twirling instructor |
| 9461 | batter and dough mixer - food and beverage processing |
| 7611 | batterboard setter |
| 9421 | battery acid adjuster |
| 9619 | battery acid dumper |
| 9527 | battery assembler |
| 9527 | battery case inspector and tester |
| 9527 | battery charger - electrical equipment manufacturing |
| 9527 | battery charger assembler |
| 9527 | battery charger operator - electrical equipment manufacturing |
| 9522 | battery installer - motor vehicle manufacturing |
| 7237 | battery lead burner |
| 9612 | battery lead burner helper |
| 7237 | battery lead-burner operator |
| 9616 | battery loader - textile processing |
| 9527 | battery maker |

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|---|---|
| 9232 | battery operator - oil and gas |
| 9421 | battery paste maker |
| 9421 | battery paste mixer |
| 9619 | battery plate offbearer |
| 9441 | batting machine tender - textile manufacturing |
| 5254 | beach lifeguard |
| 7533 | beachcomber |
| 9615 | bead picker - rubber products manufacturing |
| 9537 | bead stringer |
| 9423 | bead-forming machine operator - rubber products manufacturing |
| 9418 | beading machine operator - metal products manufacturing |
| 9423 | beading machine operator - rubber products manufacturing |
| 9413 | beaker tester |
| 9442 | beam changer - textiles |
| 9217 | beam department foreman/woman - hide and pelt processing |
| 9441 | beam dyer - textile manufacturing |
| 9441 | beam setter - textile manufacturing |
| 9441 | beam tier - textile manufacturing |
| 8262 | beam trawl fisherman/woman |
| 9441 | beam warper - textile manufacturing |
| 9616 | beam warper helper - textile processing |
| 9441 | beamer - hide and pelt processing |
| 9441 | beamer - textile manufacturing |
| 9441 | beamhouse worker - hide and pelt processing |
| 0821 | bean sprout farmer |
| 0821 | bean sprout grower |
| 9537 | bearing assembler |
| 9417 | bearing borer |
| 9417 | bearing grinder |
| 9537 | bearing inspector |
| 9235 | beater engineer - pulp and paper |
| 9614 | beater helper - pulp and paper |
| 9432 | beater operator - pulp and paper |
| 9614 | beater operator helper - pulp and paper |
| 9215 | beater room foreman/woman - pulp and paper |
| 9235 | beater room lead hand - pulp and paper |
| 9441 | beating machine tender - hide and pelt processing |
| 6562 | beautician |
| 6562 | beauty care specialist |
| 6562 | beauty culture operator |
| 4216 | beauty culture school instructor |
| 6562 | beauty culturist |
| 6623 | beauty products consultant - door-to-door sales |
| 6623 | beauty products representative - home sales |
| 6742 | beauty salon attendant |
| 2263 | beauty salon inspector |
| 6341 | beauty salon operator |
| 1414 | beauty salon receptionist |
| 6742 | beauty salon supplies attendant |
| 0651 | beauty shop manager |
| 6562 | beauty treatment operator |
| 8442 | beaver trapper |
| 0632 | bed and breakfast manager |
| 0632 | bed and breakfast operator |
| 9532 | bed assembler |
| 3012 | bedside nurse |
| 9532 | bedspring stretcher |
| 8431 | bee farm worker |
| 9462 | beef boner |
| 9462 | beef boner - meat packing plant |
| 8431 | beef cattle farm worker |
| 0821 | beef cattle farmer |
| 8252 | beef cattle herdsperson |
| 9462 | beef cooler worker - meat packing plant |
| 9213 | beef dressing foreman/woman |
| 9465 | beef grader |
| 9617 | beef marker - food and beverage processing |
| 0821 | beef producer |
| 9462 | beef sticker - meat packing plant |
| 9462 | beef trimmer - meat packing plant |
| 9462 | beef-pluck trimmer |
| 0821 | beekeeper |
| 8431 | beekeeping technician |
| 6512 | beer barman/woman |
| 9465 | beer bottling line quality control tester |
| 9461 | beer carton packer |
| 9461 | beer filter operator |
| 9461 | beer pasteurizer |
| 6411 | beer sales representative - wholesale |
| 9617 | beer sampler - food and beverage processing |
| 6513 | beer server |
| 0621 | beer store manager |
| 6421 | beer store sales clerk |
| 9465 | beer tester |
| 7445 | beer-dispensing equipment repairer |
| 9461 | beet pulp press tender |
| 9617 | beet washer |
| 9617 | beet washer helper |
| 0311 | behaviour therapy services director |
| 4153 | behavioural consultant |
| 4151 | behavioural modification psychologist |
| 4151 | behavioural psychologist |
| 4151 | behavioural therapist |
| 4151 | behaviourist |
| 6313 | bell captain |
| 6721 | bellhop |
| 5244 | bellows maker |
| 5134 | belly dancer |
| 9423 | belt brander - rubber products manufacturing |
| 9615 | belt builder helper |
| 9615 | belt builder helper - rubber products manufacturing |
| 9214 | belt building foreman/woman - rubber and plastic manufacturing |

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| 7452 | belt conveyor attendant |
| 9619 | belt edge stainer |
| 9535 | belt laminator, hand - plastic products manufacturing |
| 9619 | belt liner |
| 9437 | belt sander - woodworking |
| 9537 | belt-maker operator |
| 7452 | beltman/woman |
| 9521 | bench and structural assembler |
| 9521 | bench and structural assembler - aircraft assembly |
| 9523 | bench assembler - electronic equipment manufacturing |
| 9533 | bench assembler - wood products manufacturing |
| 9526 | bench assembler, agricultural implements |
| 9227 | bench assemblers foreman/woman - wood products manufacturing |
| 8231 | bench blaster - underground mining |
| 9412 | bench coremaker - foundry |
| 7232 | bench die cutter |
| 7232 | bench die fitter |
| 7232 | bench die sinker |
| 9521 | bench fitter - aircraft assembly |
| 9526 | bench fitter - buses and trucks |
| 9521 | bench fitter mechanic - aircraft assembly |
| 9612 | bench grinder - metal products manufacturing |
| 9537 | bench hand - jewellery manufacturing |
| 7232 | bench jig maker |
| 9536 | bench lacquer sprayer |
| 9418 | bench loom wire weaver |
| 9437 | bench machine operator - woodworking |
| 7231 | bench machinist |
| 9412 | bench moulder |
| 9412 | bench moulder - foundry |
| 6344 | bench moulder - jewellery |
| 9536 | bench spray painter |
| 7232 | bench stamping die maker |
| 7232 | bench tool maker |
| 9523 | bench worker - electronic equipment manufacturing |
| 9532 | bench worker - furniture manufacturing |
| 9619 | bench worker - garment manufacturing |
| 9462 | benchman/woman - meat packing plant |
| 9416 | bender set-up operator - metal products manufacturing |
| 9612 | bending machine helper - metal products manufacturing |
| 9416 | bending machine operator - metal forging |
| 7611 | bending machine operator - pipelines |
| 9416 | bending machine set-up operator - metal fabrication |
| 9416 | bending machine tender - metal fabrication |
| 9416 | bending machine tender - metal products manufacturing |
| 9416 | bending press operator - metal fabrication |
| 9416 | bending roll operator - metal fabrication |
| 1434 | benefits and entitlement clerk - insurance |
| 1432 | benefits and pension plan officer |
| 1121 | benefits consultant |
| 0112 | benefits manager |
| 1228 | benefits officer - government services |
| 1432 | benefits officer - payroll administration |
| 9232 | benzol agitator operator |
| 4153 | bereavement counsellor |
| 8611 | berry picker |
| 5227 | best boy |
| 9619 | beveller - shoe manufacturing |
| 9465 | beverage and bottle inspector |
| 9465 | beverage inspector |
| 0631 | beverage service manager |
| 6222 | beverage taster and buyer |
| 9461 | beverage-canning machine operator |
| 9423 | bias cutter - rubber products manufacturing |
| 9615 | bias cutting machine operator helper - rubber products manufacturing |
| 9423 | bias cutting operator - rubber products manufacturing |
| 9445 | bias-cutting machine tender - fabric, fur and leather products manufacturing |
| 4021 | Bible college teacher |
| 4021 | Bible school teacher |
| 5111 | bibliographer |
| 9537 | bicycle assembler |
| 9227 | bicycle assembly foreman/woman |
| 9227 | bicycle assembly supervisor |
| 9537 | bicycle inspector |
| 7445 | bicycle mechanic |
| 6722 | bicycle rental attendant |
| 7205 | bicycle repair shop supervisor |
| 7445 | bicycle repairer |
| 6421 | bicycle salesperson - retail |
| 0621 | bicycle shop manager |
| 6531 | bicycle tour guide |
| 0414 | bilateral relations chief |
| 0423 | bilateral relations manager - social services |
| 5122 | bilingual editor |
| 1221 | bilingual services co-ordinator |
| 1431 | bill clerk |
| 1435 | bill collector |
| 6552 | bill complaints investigator |
| 1513 | bill distributor |
| 7611 | bill poster |
| 1411 | bill sorter |
| 7441 | billboard erector |
| 9411 | billet heater |
| 9611 | billet helper - primary metal processing |
| 9611 | billet mill helper - primary metal processing |
| 9231 | billet mill roller - primary metal processing |
| 9611 | billet pusher |
| 9611 | billet rolling mill helper - primary metal processing |

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| **7445** | billiard and bowling equipment installer-repairer |
| **9537** | billiard ball maker |
| **9537** | billiard cloth inspector |
| **9437** | billiard cue maker |
| **7445** | billiard cue weigher |
| **6722** | billiard parlour attendant |
| **6316** | billiard parlour supervisor |
| **5251** | billiard player |
| **9532** | billiard table assembler |
| **9537** | billiard table cushion mounter |
| **7445** | billiard table repairer |
| **7445** | billiard table servicer |
| **6722** | billiards ballracker |
| **1431** | billing clerk |
| **1212** | billing co-ordinator |
| **1431** | billing machine operator |
| **1521** | billing rate clerk |
| **1212** | billing supervisor |
| **1212** | billing unit head |
| **7452** | bin attendant |
| **9617** | bin cleaner - food and beverage processing |
| **7452** | bin filler |
| **9473** | binder - printing |
| **9473** | binder and finisher |
| **9473** | binder and finisher - printing |
| **9473** | binder assistant |
| **9619** | binder helper - printing |
| **8431** | binder operator - agriculture |
| **7303** | binders foreman/woman - printing |
| **7303** | binders supervisor - printing |
| **7303** | bindery foreman/woman - printing |
| **9619** | bindery helper |
| **9619** | bindery labourer |
| **9619** | bindery machine feeder - printing |
| **9473** | bindery machine operator - printing |
| **9473** | bindery operator |
| **7303** | bindery supervisor - printing |
| **9473** | bindery worker - printing |
| **7303** | bindery workers supervisor - printing |
| **9473** | binding and finishing machine operator |
| **9446** | binding machine operator - sewing |
| **9446** | binding sewing machine operator |
| **9446** | binding stitcher - footwear manufacturing |
| **6722** | bingo caller |
| **6722** | bingo floor attendant |
| **6722** | bingo floorman/woman |
| **6316** | bingo games supervisor |
| **6722** | bingo hall attendant |
| **0513** | bingo hall manager |
| **7452** | binman/woman |
| **2112** | bioanalytical chemist |
| **2134** | biochemical and biotechnical engineer |
| **2134** | biochemical development engineer |
| **2134** | biochemical engineer |
| **3212** | biochemical technician - medical laboratory |
| **2112** | biochemist |
| **2211** | biochemistry laboratory technician |
| **2211** | biochemistry laboratory technologist |
| **4011** | biochemistry professor - university |
| **2112** | biochemistry research scientist |
| **2211** | biochemistry technician (except medical) |
| **2211** | biochemistry technologist |
| **3211** | biochemistry technologist - medical laboratory |
| **2211** | biochemistry technologist (except medical) |
| **2148** | bioelectrical engineer |
| **4169** | biogeographer |
| **5121** | biographer |
| **2121** | bioinformatician |
| **3144** | biokineticist |
| **2161** | biological and agricultural science statistician |
| **4169** | biological anthropologist |
| **2112** | biological chemist |
| **2221** | biological forensic laboratory technologist |
| **5241** | biological illustrator |
| **2221** | biological laboratory technologist |
| **2113** | biological oceanographer |
| **0212** | biological research department chief |
| **2121** | biological scientist |
| **2221** | biological technician |
| **3212** | biological technician - medical laboratory |
| **2221** | biological technologist |
| **2121** | biologist |
| **4011** | biology professor - university |
| **2121** | biology systematist |
| **2121** | biology taxonomist |
| **4031** | biology teacher - secondary school |
| **9241** | biomass plant technician |
| **2148** | biomechanical engineer |
| **4011** | biomechanics professor - university |
| **2241** | biomedical and laboratory equipment repairer |
| **2148** | biomedical engineer |
| **2148** | biomedical engineer - research and development |
| **2241** | biomedical engineering technologist |
| **2121** | biomedical nanotechnology research scientist |
| **2161** | biometrician |
| **2111** | biophysicist |
| **4151** | biopsychologist |
| **2148** | bio-resource engineer |
| **2161** | biostatistician |
| **2113** | biostratigrapher |
| **2134** | biotechnical engineer |
| **2134** | biotechnology engineer |
| **2221** | biotechnology technician |
| **0821** | bird breeder |
| **0621** | bird seller |
| **3011** | birthing room nursing supervisor |
| **6332** | biscuit baker |
| **9617** | biscuit packer |
| **4154** | bishop |

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|---|---|
| **9619** | bisque cleaner - clay products |
| **9414** | bisque kiln operator - clay products |
| **9611** | bisque placer - mineral products manufacturing |
| **9612** | bit sharpener tender |
| **9232** | bitumen extraction plant operator |
| **9232** | bitumen upgrading plant operator |
| **7521** | bituminous paver operator - heavy equipment |
| **7611** | bituminous paving labourer |
| **7611** | bituminous paving machine operator |
| **2261** | black light technician - non-destructive testing |
| **9421** | black powder grainer and glazier tender |
| **9421** | black powder press tender |
| **9619** | blackboard eraser maker |
| **9537** | blackboard maker |
| **6533** | blackjack croupier |
| **7384** | blacksmith |
| **7384** | blacksmith - agriculture |
| **7384** | blacksmith - manufacturing |
| **7201** | blacksmith foreman/woman |
| **9612** | blacksmith helper |
| **7201** | blacksmith shop foreman/woman |
| **7611** | blacktop raker |
| **7611** | blacktop spreader |
| **9423** | bladder moulder - rubber products manufacturing |
| **9461** | blanching machine tender |
| **9442** | blanket weaver |
| **9211** | blast furnace foreman/woman |
| **9611** | blast furnace helper |
| **9231** | blast furnace operator |
| **9411** | blast furnace tapper |
| **9231** | blast furnaceman/woman |
| **8231** | blast hole driller - underground mining |
| **7372** | blaster - quarrying |
| **7372** | blaster - surface mining |
| **8231** | blaster - underground mining |
| **7372** | blaster (except underground mining) |
| **8411** | blaster helper - underground mining |
| **7302** | blasters foreman/woman - construction |
| **8221** | blasters foreman/woman - mining and quarrying |
| **8221** | blasters foreman/woman - quarrying |
| **8221** | blasters foreman/woman - surface mining |
| **9537** | blasting cap assembler |
| **9432** | bleach boiler tender |
| **9432** | bleach field operator - pulp and paper |
| **9215** | bleach plant foreman/woman - pulp and paper |
| **9235** | bleach plant operator - pulp and paper |
| **9432** | bleach stock preparation operator - pulp and paper |
| **9441** | bleacher - textile manufacturing |
| **9616** | bleacher helper - textile processing |
| **9461** | bleacher operator - food and beverage processing |
| **9432** | bleacher operator - pulp and paper |
| **9432** | bleacher tender - pulp and paper |
| **9421** | bleacher, oils |
| **9432** | bleacher, rag stock |
| **9217** | bleaching foreman/woman - textiles |
| **9441** | bleaching machine operator - textile manufacturing |
| **9441** | bleaching range operator - textile manufacturing |
| **9421** | bleaching solution maker |
| **9421** | blender - chemical processing |
| **9461** | blender - tobacco processing |
| **9617** | blender and packer - food and beverage processing |
| **9617** | blender and wrapper - food and beverage processing |
| **9421** | blender operator - chemical processing |
| **9461** | blender operator - food and beverage processing |
| **8412** | blender operator - oil field services |
| **9422** | blender operator - plastic manufacturing |
| **9411** | blender tender - primary metal and mineral products processing |
| **9421** | blender, glues - chemical processing |
| **8412** | blending machine operator - oil field services |
| **9441** | blending machine tender - textile manufacturing |
| **9446** | blindstitch-sewing machine operator |
| **9535** | blister former - plastic products manufacturing |
| **9619** | blister packer |
| **9414** | block cuber - concrete, clay and stone products |
| **9414** | block machine operator - concrete, clay and stone products |
| **9536** | block sander and glazier |
| **9431** | block splitter - sawmill |
| **6741** | blocker - laundry and dry cleaning |
| **8231** | blockholer - underground mining |
| **9473** | blocking press operator - printing |
| **9473** | blocking press stamper - printing |
| **9414** | block-making machine tender - concrete, clay and stone products |
| **5122** | blog editor |
| **0311** | blood bank administrator |
| **3212** | blood bank technician |
| **3211** | blood bank technologist |
| **3414** | blood donor clinic assistant |
| **3414** | blood donor clinic attendant |
| **3414** | blood donor clinic helper |
| **3414** | blood sampling attendant |
| **9231** | blooming mill roller |
| **9422** | blow moulder operator - plastic manufacturing |

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| 9214 | blow moulding foreman/woman - rubber and plastic manufacturing |
| 9422 | blow moulding machine operator - plastic manufacturing |
| 9432 | blow pit tender - pulp and paper |
| 9422 | blow-moulding process operator - plastic manufacturing |
| 9423 | blow-out and test operator - rubber products |
| 7237 | blowtorch operator |
| 7237 | blowtorch welder |
| 9447 | blue-leather grader |
| 9471 | blueprint blocker |
| 9471 | blueprint developer |
| 9619 | blueprint trimmer-wrapper - printing |
| 9619 | blueprinter helper - printing |
| 9471 | blueprinting machine operator |
| 5133 | blues singer |
| 9416 | board drop hammer operator |
| 9436 | board grader - wood processing |
| 9416 | board hammer operator - metal forging |
| 9523 | board laboratory operator |
| 4168 | board member - government services |
| 0422 | board of education administrator |
| 4166 | board of education inspector |
| 9431 | board sawyer - sawmill |
| 9441 | boarder - textile manufacturing |
| 0632 | boarding house keeper |
| 0632 | boarding house manager |
| 0651 | boarding kennel manager |
| 9441 | boarding machine tender - hide and pelt processing |
| 9441 | boarding machine tender - textile manufacturing |
| 9232 | boardman/woman - chemical processing |
| 6421 | boat and marine equipment salesperson - retail |
| 7293 | boat and ship insulator |
| 9531 | boat assembler |
| 9619 | boat assembly helper |
| 9531 | boat assembly inspector |
| 9531 | boat assembly laminator |
| 9531 | boat assembly repairer |
| 7271 | boat carpenter |
| 7371 | boat crane operator |
| 1525 | boat dispatcher |
| 7301 | boat engine repair foreman/woman |
| 9531 | boat inspector |
| 7271 | boat joiner |
| 7451 | boat loader |
| 9531 | boat motor installer |
| 7445 | boat propeller repairer |
| 6722 | boat rental attendant |
| 6531 | boat tour guide |
| 7271 | boatbuilding apprentice |
| 7532 | boatswain |
| 7532 | boatswain - water transport |
| 9616 | bobbin changer - textile processing |
| 9616 | bobbin cleaner - textile processing |
| 9616 | bobbin collector - textile processing |
| 9441 | bobbin dryer - textile manufacturing |
| 9616 | bobbin processor |
| 9616 | bobbin scraper - textile processing |
| 9616 | bobbin sorter - textile processing |
| 9441 | bobbin stripper - textile manufacturing |
| 9441 | bobbin winder - textile manufacturing |
| 7521 | bobcat operator |
| 5252 | bobsled coach |
| 5252 | bobsleigh coach |
| 7322 | body and fender repairer - automobile |
| 7322 | body and fender repairman/woman - automobile |
| 9522 | body assembler - motor vehicle manufacturing |
| 9522 | body department technician - motor vehicle manufacturing |
| 9522 | body frame inspector - motor vehicle manufacturing |
| 6562 | body piercer |
| 9522 | body production operator - motor vehicle manufacturing |
| 7301 | body shop foreman/woman |
| 7301 | body shop supervisor |
| 9221 | body shop supervisor - motor vehicle manufacturing |
| 4311 | bodyguard - police |
| 6541 | bodyguard (except police) |
| 9522 | body-in-white inspector - motor vehicle manufacturing |
| 9441 | boiler - textile manufacturing |
| 2262 | boiler and machinery inspector |
| 1313 | boiler and machinery underwriter - insurance |
| 7205 | boiler and pipe insulation specialists foreman/woman |
| 7293 | boiler and pipe insulator |
| 7205 | boiler and pipe insulators foreman/woman |
| 6732 | boiler cleaner |
| 7234 | boiler fitter |
| 2262 | boiler inspector |
| 2264 | boiler installation inspector |
| 7234 | boiler installer |
| 7293 | boiler insulator |
| 9241 | boiler operator |
| 9613 | boiler operator helper |
| 9536 | boiler painter |
| 7234 | boiler repairer |
| 7234 | boiler repairman/woman |
| 7234 | boiler shop mechanic |
| 7532 | boiler tender - ships |
| 2261 | boiler tester |
| 9613 | boiler water tester |
| 7237 | boiler welder |
| 9613 | boilerhouse helper |
| 7311 | boilerhouse machinery mechanic |
| 9241 | boilerhouse operator |

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| **7234** | boilermaker |
| **7234** | boilermaker apprentice |
| **7201** | boilermaker foreman/woman |
| **9612** | boilermaker helper |
| **7201** | boilermaker supervisor |
| **7201** | boilermaker, plater and structural metal worker foreman/woman |
| **7234** | boilermaker-welder |
| **7201** | boilermaking shop foreman/woman |
| **9213** | boiling house foreman/woman - food and beverage processing |
| **9461** | bologna maker |
| **9418** | bolt header operator |
| **9614** | bolt loader - sawmill |
| **9418** | bolt machine operator |
| **9418** | bolt maker |
| **9431** | bolt sawyer - sawmill |
| **9417** | bolt threader |
| **9617** | bolter helper - food and beverage processing |
| **9461** | bolter operator - food and beverage processing |
| **8231** | bolter operator - underground mining |
| **9431** | bolterman/woman - sawmill |
| **9417** | bolt-threading machine operator |
| **7384** | bomb-disposal expert |
| **1112** | bond analyst |
| **1113** | bond broker |
| **1113** | bond dealer |
| **0121** | bond sales manager |
| **1113** | bond trader |
| **9423** | bonder - rubber products manufacturing |
| **9441** | bonding machine tender - textile manufacturing |
| **9423** | bonding press tender - rubber products manufacturing |
| **1114** | bonds underwriter |
| **9461** | bone crusher - food and beverage processing |
| **9619** | boner, garments and hosiery |
| **9435** | book cover creaser |
| **5123** | book critic |
| **5122** | book editor |
| **9473** | book finisher - printing |
| **9435** | book jacket machine tender |
| **1123** | book publicist |
| **0512** | book publishing manager |
| **1451** | book returns clerk - library |
| **5123** | book reviewer |
| **6421** | book salesperson - retail |
| **9473** | book trimmer |
| **9473** | bookbinder - printing |
| **9473** | bookbinder assistant |
| **9473** | bookbinding machine operator |
| **9473** | book-cutting machine operator |
| **9615** | booker - rubber products manufacturing |
| **9461** | booker - tobacco processing |
| **6521** | booking agent - travel agency |
| **6411** | booking agent - wholesale |
| **1414** | booking clerk - hospital |
| **1414** | booking clerk - medical office |
| **6524** | bookings clerk - railway |
| **6524** | bookings clerk - wholesale travel |
| **6524** | bookings clerk (except airline) |
| **1311** | bookkeeper |
| **1212** | bookkeepers and accounting clerks supervisor |
| **1311** | bookkeeping clerk |
| **1212** | bookkeeping supervisor |
| **4021** | bookkeeping teacher |
| **1451** | bookmobile clerk |
| **7514** | bookmobile driver |
| **5111** | bookmobile librarian |
| **6421** | bookseller |
| **9473** | book-sewing machine operator - printing |
| **6421** | bookstore clerk - retail |
| **0621** | bookstore manager |
| **7371** | boom crane operator |
| **5227** | boom grip |
| **8616** | boom man/woman |
| **8211** | boom master - logging |
| **5227** | boom microphone operator |
| **5227** | boom operator |
| **7371** | boom truck crane operator |
| **7371** | boom truck hoist operator |
| **8616** | boom worker |
| **8616** | boom worker - logging |
| **8616** | boom worker - mill pond |
| **7521** | boom-conveyor operator |
| **9217** | boot and shoe foreman/woman |
| **9447** | boot and shoe grader |
| **9447** | boot and shoe inspector |
| **9619** | boot and shoe matcher |
| **9619** | boot and shoe perforator |
| **9447** | boot and shoe sorter |
| **6343** | boot repairer |
| **6343** | bootmaker |
| **9217** | bootmakers and shoemakers foreman/woman |
| **9217** | bootmakers foreman/woman |
| **0412** | border services manager |
| **1228** | border services officer (BSO) |
| **9417** | borer - metal machining |
| **9437** | borer - woodworking |
| **8411** | borer helper - underground raise mining |
| **9417** | boring machine operator - metal machining |
| **9437** | boring machine operator - woodworking |
| **9414** | boring mill operator - concrete products |
| **9417** | boring mill operator - metal machining |
| **9417** | boring mill set-up operator - metal machining |
| **5212** | botanical garden interpreter |
| **2221** | botanical technician |
| **2221** | botanical technologist |
| **2121** | botanist |
| **4011** | botany assistant professor - university |

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| 4011 | botany professor - university |
| 9537 | bottle cap seal machine tender |
| 9617 | bottle caser - food and beverage processing |
| 9617 | bottle checker - food and beverage processing |
| 9413 | bottle inspector - glass products manufacturing |
| 9413 | bottle machine operator - glass products manufacturing |
| 9413 | bottle maker operator |
| 9413 | bottle maker operator - glass and glass products |
| 9619 | bottle sorter |
| 9413 | bottle tester |
| 9617 | bottle washer |
| 9617 | bottle washer - food and beverage processing |
| 9617 | bottler |
| 9617 | bottle-washing machine tender - food and beverage processing |
| 9213 | bottling foreman/woman |
| 9213 | bottling foreman/woman - food and beverage processing |
| 9617 | bottling line worker |
| 9461 | bottling machine operator |
| 9461 | bottling machine operator - food and beverage processing |
| 9213 | bottling supervisor - food and beverage processing |
| 8411 | bottom cager - underground mining |
| 9619 | bottom wheeler - shoe manufacturing |
| 6541 | bouncer |
| 6541 | bouncer - security |
| 6421 | bouquet salesperson |
| 7445 | bow repairer |
| 9441 | bowker - textile manufacturing |
| 9437 | bowl blank boring and finishing machine operator |
| 5251 | bowler |
| 6722 | bowling alley attendant |
| 5254 | bowling instructor |
| 6722 | bowling pinsetter |
| 7445 | bows repairer - stringed instruments |
| 7452 | box bander |
| 9533 | box blank former, wood |
| 9537 | box blank machine operator |
| 9437 | box blank repairer - woodworking |
| 6622 | box boy/girl |
| 9435 | box cutter - paper converting |
| 9619 | box factory labourer |
| 7452 | box filler |
| 9435 | box finisher - paper converting |
| 9435 | box gluer - paper converting |
| 9619 | box labeller |
| 9435 | box liner - paper converting |
| 9461 | box machine operator - food and beverage processing |
| 9435 | box maker - paper converting |
| 9435 | box maker operator |
| 9533 | box maker, wood |
| 9215 | box making foreman/woman - paper converting |
| 9619 | box marker - manufacturing |
| 6611 | box office cashier |
| 9619 | box packer |
| 9471 | box printer - printing |
| 9619 | box sealer |
| 9532 | box spring assembler |
| 9532 | box spring frame assembler |
| 9532 | box spring unit assembler - furniture manufacturing |
| 9617 | box stitcher - food and beverage processing |
| 9471 | box, case and lining printer |
| 9619 | box-blank machine feeder |
| 7452 | boxcar loader |
| 9537 | box-end-stapling machine tender |
| 5251 | boxer |
| 1123 | boxing promoter |
| 6722 | boxing second |
| 5252 | boxing trainer |
| 9471 | box-printing machine operator |
| 9537 | box-sealing machine operator |
| 3219 | brace maker |
| 9537 | bracelet assembler |
| 3215 | brachytherapy technologist |
| 9442 | braid maker - textiles |
| 9442 | braid weaver - textiles |
| 9442 | braider - textiles |
| 9423 | braider operator - rubber products manufacturing |
| 9418 | braider tender |
| 7311 | braiding machine setter |
| 9423 | braiding machine tender - rubber products manufacturing |
| 9442 | braiding machine tender - textiles |
| 9418 | braiding machine tender - wire products manufacturing |
| 1451 | Braille and talking books library clerk |
| 1423 | braille block maker |
| 1423 | braille computer translations specialist |
| 1423 | braille data entry clerk |
| 9471 | braille duplicator |
| 4215 | braille instructor |
| 1423 | braille keyboard operator |
| 1423 | braille keyboard operator - typesetting |
| 9471 | braille printer |
| 1423 | braille process engraver |
| 1423 | braille stereograph machine operator |
| 4215 | braille teacher |
| 1251 | braille transcriber |
| 1423 | braille transcription technician |
| 1251 | Braille volumes transcriber |
| 9471 | braille-impressing machine operator |
| 1423 | braillewriter operator |

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| 9522 | brake assembler - motor vehicle manufacturing |
| 9417 | brake drum lathe operator |
| 9612 | brake helper - metal products manufacturing |
| 7314 | brake inspector - railway car |
| 9416 | brake setter - metalworking |
| 0621 | brake shop manager |
| 7321 | brake systems mechanic |
| 7362 | brake worker - switching yard |
| 7362 | brakeman/woman |
| 7362 | brakeman/woman - railway |
| 7362 | brakeman/woman - railway yard |
| 7362 | brakeman/woman - switching yard |
| 0122 | branch administrative manager - banking, credit and investment |
| 7246 | branch exchange repairer - telecommunications |
| 1451 | branch library clerk |
| 0114 | branch manager - administration |
| 0122 | branch manager - banking, credit and investment |
| 0121 | branch manager - insurance |
| 0621 | branch manager - retail |
| 1452 | brand recorder |
| 9412 | brass caster |
| 6344 | brass or bronze chaser |
| 8411 | brattice builder - underground mining |
| 7237 | brazer |
| 7237 | brazer and hammerer |
| 9612 | brazing machine feeder |
| 7237 | brazing machine operator |
| 7237 | brazing machine setter |
| 6332 | bread baker |
| 6332 | bread baker - retail |
| 7514 | bread deliverer |
| 2222 | bread inspector |
| 9617 | bread pan greaser - food and beverage processing |
| 7514 | bread route driver |
| 9461 | bread slicer operator |
| 9465 | bread tester |
| 9461 | bread-slicing machine operator |
| 9231 | breakdown mill operator |
| 9432 | breaker - pulp and paper |
| 9441 | breaker feeder - textile manufacturing |
| 9461 | breaker tank attendant - food and beverage processing |
| 9432 | breaker tender - pulp and paper |
| 9441 | breaker tender - textile manufacturing |
| 9432 | breakerman/woman - pulp and paper |
| 6322 | breakfast cook |
| 9537 | breaster, heels - footwear manufacturing |
| 9461 | brewer |
| 9461 | brewer helper - food and beverage processing |
| 9213 | brewer supervisor |
| 9461 | brewery kettle tender - food and beverage processing |
| 9617 | brewery labourer |
| 9461 | brewery pumpman/woman |
| 9461 | brewery stillman/woman - beverage processing |
| 9213 | brewery supervisor |
| 2211 | brewery technician |
| 2211 | brewery technician - applied chemistry |
| 9465 | brewery tester - food and beverage processing |
| 9461 | brewery worker |
| 9461 | brewhouse operator |
| 0911 | brewmaster |
| 9437 | briar-bowl turner - woodworking |
| 7281 | brick and stone mason |
| 7205 | brick and stone masons foreman/woman |
| 9611 | brick and tile batch mixer |
| 9414 | brick and tile caster - clay products |
| 9411 | brick and tile crusher operator |
| 9211 | brick and tile foreman/woman |
| 9415 | brick and tile inspector |
| 9611 | brick and tile kiln cleaner |
| 9415 | brick and tile tester |
| 9414 | brick and tile-making machine operator - clay products |
| 9414 | brick baker - clay products |
| 9414 | brick burner - clay products |
| 7281 | brick chimney builder |
| 7611 | brick cleaner |
| 9414 | brick cutter - clay products |
| 9415 | brick grader |
| 9414 | brick kiln operator - clay products |
| 9414 | brick kilnman/woman - clay products |
| 9414 | brick machine set-up operator - clay products |
| 9414 | brick maker - clay products |
| 7205 | brick masonry contractor |
| 9414 | brick moulder - clay products |
| 9414 | brick presser - clay products |
| 9414 | brick presser operator |
| 7281 | brick setter |
| 9414 | brick-cutting machine operator - clay products |
| 7281 | bricklayer |
| 7205 | bricklayer foreman/woman |
| 7611 | bricklayer helper |
| 7205 | bricklayer supervisor |
| 7205 | bricklayer-contractor |
| 7205 | bricklaying and masonry contractor |
| 7205 | bricklaying contractor |
| 7281 | brickmason |
| 7611 | brickmason's helper |
| 9414 | brick-moulding machine operator - clay products |
| 6421 | bridal sales consultant - retail |
| 0711 | bridge and building construction manager |

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|---|---|
| 2264 | bridge and building inspector |
| 7235 | bridge and girder plater |
| 7302 | bridge and highway construction gang foreman/woman |
| 7533 | bridge attendant - canal lock systems |
| 7271 | bridge carpenter |
| 7302 | bridge construction foreman/woman |
| 7236 | bridge construction ironworker |
| 0711 | bridge construction superintendent |
| 7371 | bridge crane operator |
| 2231 | bridge design technician |
| 2131 | bridge engineer |
| 7611 | bridge gang worker - construction |
| 2264 | bridge inspector |
| 2264 | bridge inspector - construction and maintenance |
| 5254 | bridge instructor |
| 7533 | bridge keeper - lock system |
| 8411 | bridge operator - underground mining |
| 7294 | bridge painter |
| 7205 | bridge painters foreman/woman |
| 5254 | bridge teacher |
| 7533 | bridgemaster |
| 7533 | bridgemaster - lock systems |
| 4211 | brief writer - law |
| 0433 | brigadier general |
| 9472 | bright type processor |
| 9232 | brine equipment tender |
| 9411 | brine maker - mineral products processing |
| 9461 | brine man/woman - food and beverage processing |
| 9461 | brine mixer operator - food and beverage processing |
| 9232 | brine purification operator |
| 9461 | brine tank separator tender |
| 8231 | brine well tender |
| 9411 | briquetting machine operator |
| 9462 | brisket cutter - meat packing plant |
| 4211 | British Columbia notary public |
| 9417 | broacher, production - metal machining |
| 9417 | broaching machine operator - metal machining |
| 9417 | broaching machine set-up operator - metal machining |
| 1411 | broadcast clerk |
| 5224 | broadcast engineer |
| 5224 | broadcast field technician |
| 2262 | broadcast interference inspector |
| 5123 | broadcast journalist |
| 5224 | broadcast maintenance technician |
| 5224 | broadcast technician |
| 5224 | broadcast transmitter operator |
| 5231 | broadcaster |
| 5224 | broadcasting control operator |
| 5226 | broadcasting co-ordinator |
| 0015 | broadcasting corporation president |
| 5131 | broadcasting director |
| 5224 | broadcasting engineer |
| 6221 | broadcasting equipment salesperson |
| 0512 | broadcasting manager |
| 5131 | broadcasting producer |
| 2133 | broadcasting professional engineer |
| 5131 | broadcasting sports director |
| 0512 | broadcasting station manager |
| 5224 | broadcasting switcher |
| 5224 | broadcasting technician |
| 5224 | broadcasting transmitter operator |
| 7295 | broadloom installer |
| 0821 | broiler chicken producer |
| 6322 | broiler cook |
| 0821 | broiler producer |
| 9432 | broke beater tender - pulp and paper |
| 9614 | broke hustler - pulp and paper |
| 1113 | broker |
| 1434 | brokerage clerk |
| 0121 | brokerage manager - investments |
| 9536 | bronze plater |
| 9473 | bronzer - printing |
| 9473 | bronzing machine tender - printing |
| 9537 | broom assembler |
| 9619 | broom cleaner and cutter |
| 9537 | broom maker |
| 9537 | broom maker, hand |
| 9537 | broom stitcher |
| 9619 | broom trimmer |
| 9537 | broomcorn dyer |
| 9537 | broom-stitching machine operator |
| 4217 | brother/sister - religion |
| 9432 | brown stock operator - pulp and paper |
| 9432 | brown stock washer - pulp and paper |
| 9614 | brown stock washer helper - pulp and paper |
| 9461 | brown sugar maker |
| 9537 | brush assembler, twisted wire |
| 9414 | brush coater operator - concrete products |
| 8422 | brush cutter - forestry |
| 9537 | brush finisher |
| 9527 | brush lacer and trimmer - electrical equipment manufacturing |
| 9441 | brush machine tender - textile manufacturing |
| 9537 | brush maker operator |
| 9537 | brush maker, hand |
| 9227 | brush making foreman/woman |
| 9537 | brush making machine operator |
| 9536 | brush stainer - production |
| 8411 | brusher - underground mining |
| 9441 | brusher and shearer - textile manufacturing |
| 9441 | brushing machine operator - hide and pelt processing |
| 9441 | brushing operator - textile manufacturing |
| 9527 | brush-lacing and trimming operator - electrical equipment manufacturing |
| 2121 | bryologist |
| 8421 | bucker |
| 8421 | bucker - logging |

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| **8211** | buckers supervisor |
| **9437** | bucket chucker - woodworking |
| **7452** | bucket elevator operator |
| **9437** | bucket lathe operator |
| **7521** | bucketwheel operator |
| **7521** | bucketwheel-excavator operator |
| **9619** | buckle maker |
| **9418** | buckshot swage operator |
| **1111** | budget accountant |
| **1221** | budget analyst |
| **0111** | budget and sectoral profitability director |
| **1431** | budget clerk |
| **1311** | budget officer |
| **1212** | budget supervisor |
| **9619** | buffer, shoe parts |
| **6513** | buffet waiter/waitress |
| **9224** | buffing and lacquering foreman/woman - furniture and fixtures manufacturing |
| **9416** | buffing line setter |
| **9535** | buffing machine operator - plastic manufacturing |
| **9416** | buffing machine set-up operator - metal fabrication |
| **9537** | buffing machine set-up operator, flatware |
| **9612** | buffing machine tender - metal products manufacturing |
| **9611** | buggy operator - primary metal processing |
| **7521** | buggy-operator skinner |
| **7521** | buggy-scraper operator |
| **5133** | bugler |
| **9461** | buhr mill operator - food and beverage processing |
| **0712** | builder |
| **0712** | builder - renovation |
| **0712** | builder - residential |
| **7271** | building addition carpenter |
| **7611** | building and house wrecker |
| **1314** | building appraiser |
| **6733** | building caretaker |
| **7271** | building carpenter |
| **6731** | building cleaner |
| **6315** | building cleaning and maintenance supervisor |
| **6315** | building cleaning supervisor |
| **7241** | building construction electrician |
| **2234** | building construction estimator |
| **0711** | building construction general contractor |
| **0016** | building construction general manager |
| **2264** | building construction inspector |
| **2264** | building construction inspector foreman/woman |
| **0711** | building construction superintendent |
| **6733** | building custodian |
| **7241** | building electrician |
| **2131** | building envelope engineer |
| **6732** | building exterior cleaner |
| **7292** | building glass glazier |
| **7292** | building glazier |
| **6733** | building handyman/woman |
| **2264** | building inspector |
| **2264** | building inspector - electrical wiring |
| **2264** | building inspector - structure |
| **7205** | building insulation material installation foreman/woman |
| **7205** | building insulation specialists foreman/woman |
| **7205** | building insulation supervisor |
| **7293** | building insulator |
| **7205** | building insulators foreman/woman |
| **0714** | building maintenance head |
| **6733** | building maintenance man/woman |
| **0714** | building maintenance manager |
| **6411** | building maintenance services sales representative |
| **7205** | building maintenance supervisor |
| **6733** | building maintenance worker |
| **1224** | building managing supervisor |
| **0711** | building materials branch director |
| **2231** | building materials technician |
| **7302** | building mover contractor |
| **7302** | building movers foreman/woman |
| **7302** | building moving foreman/woman |
| **0714** | building operations manager |
| **6733** | building operator - maintenance |
| **7294** | building painter |
| **7611** | building painter helper |
| **2264** | building safety inspector |
| **6732** | building sander |
| **0714** | building services head |
| **0714** | building services manager |
| **6733** | building services worker |
| **5242** | building space planner |
| **6733** | building superintendent |
| **0113** | building supplies purchasing manager |
| **6421** | building supplies salesperson - retail |
| **2132** | building systems engineer |
| **7236** | building systems erector |
| **9241** | building systems operator |
| **9241** | building systems technician |
| **7611** | building wrecker |
| **7302** | building wrecking contractor |
| **7302** | building wrecking foreman/woman |
| **2131** | buildings and bridge engineer |
| **0114** | buildings, vehicles and supplies manager |
| **7291** | built-up flat roofer |
| **7291** | built-up roofer |
| **8612** | bulb planter - landscaping |
| **9461** | bulk blender - tobacco processing |
| **9411** | bulk cement-blender tender |
| **7511** | bulk goods truck driver |
| **7452** | bulk materials carrier operator |
| **7452** | bulk materials loader operator |
| **7452** | bulk materials unloader |
| **7511** | bulk milk truck driver |

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|---|---|
| **9461** | bulker blender - tobacco processing |
| **9461** | bulk-sausage-stuffing machine operator - food and beverage processing |
| **9417** | Bullard multiple-spindle lathe operator |
| **7521** | bulldozer driver |
| **7521** | bulldozer operator |
| **9537** | bullet and cartridge case inspector |
| **9537** | bullet and cartridge inspector |
| **9418** | bullet cutter and former |
| **9613** | bullet lubricant compounder |
| **9418** | bullet maker |
| **9412** | bullet moulder - foundry |
| **9418** | bullet shaper, machine - metal products manufacturing |
| **9537** | bulletin board fabricator |
| **9537** | bulletin board maker |
| **9418** | bullet-shaping machine tender |
| **9418** | bullet-swaging machine adjuster |
| **9418** | bullet-swaging machine setter - metal products manufacturing |
| **9612** | bumper operator, aircraft |
| **9418** | bunching machine operator |
| **9619** | bundle wrapper |
| **9619** | bundler - manufacturing |
| **6722** | bungee jump attendant |
| **8241** | bunk skidder operator |
| **0512** | bureau chief - news agency |
| **3012** | burn patient care nurse |
| **3011** | burn unit nursing co-ordinator |
| **3011** | burn unit nursing supervisor |
| **3012** | burn victim care nurse |
| **9232** | burner operator - petroleum |
| **9416** | burning machine operator - metal fabrication |
| **9416** | burning table operator - metal fabrication |
| **9441** | burnisher - hide and pelt processing |
| **9612** | burnisher - metalworking |
| **9537** | burnisher operator - footwear manufacturing |
| **9537** | burnishing machine operator - footwear manufacturing |
| **1511** | bursting machine tender |
| **7321** | bus and transport mechanic |
| **9526** | bus and truck floor framer |
| **9526** | bus and truck frame builder |
| **7321** | bus and truck mechanic |
| **7301** | bus and truck repair foreman/woman |
| **9526** | bus assembler |
| **6711** | bus boy/girl |
| **6732** | bus cleaner |
| **0731** | bus company manager |
| **7305** | bus dispatcher |
| **7512** | bus driver |
| **7512** | bus driver - special needs passengers |
| **7305** | bus drivers supervisor |
| **6552** | bus information clerk |
| **7305** | bus inspector |
| **7305** | bus inspector-dispatcher |
| **7321** | bus mechanic |
| **7512** | bus operator |
| **7512** | bus operator - accessible services |
| **1511** | bus parcel express clerk |
| **9526** | bus parts inspector |
| **6621** | bus refueler |
| **6552** | bus schedule information clerk |
| **1526** | bus scheduler |
| **6552** | bus service information clerk |
| **1411** | bus terminal clerk |
| **6524** | bus ticket agent |
| **6531** | bus tour guide |
| **1526** | bus transportation service co-ordinator |
| **6732** | bus washer |
| **2271** | bush pilot |
| **9611** | busher - primary metal processing |
| **9524** | bushing assembler - small transformer manufacturing |
| **9525** | bushing core winder - industrial electrical equipment |
| **9619** | bushing tender |
| **4011** | business administration professor - university |
| **4021** | business administration teacher |
| **4021** | business administration teacher - college level |
| **5242** | business aircraft interior designer |
| **2271** | business aircraft pilot |
| **4162** | business analyst - economics |
| **4031** | business and commerce teacher - secondary school |
| **9222** | business and commercial machine assembly supervisor |
| **9222** | business and commercial machines assembly foreman/woman |
| **2161** | business and economics statistician |
| **2174** | business application programmer |
| **1314** | business appraiser |
| **0014** | business association general manager |
| **0014** | business association president |
| **0421** | business college director |
| **4021** | business college instructor |
| **0422** | business college principal |
| **4021** | business college teacher |
| **1122** | business consultant |
| **2171** | business continuity analyst |
| **0412** | business development director - government services |
| **0121** | business development manager - damage insurance |
| **4163** | business development officer |
| **1452** | business documentalist |
| **4162** | business economist |
| **5122** | business editor |
| **4031** | business education teacher |
| **6411** | business equipment sales representative - wholesale |
| **6541** | business establishment investigator |

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|---|---|
| 6541 | business establishment investigator - security |
| 1228 | business expertise advisor - government services |
| 1228 | business expertise consultant - government services |
| 5241 | business forms designer |
| 6411 | business forms sales representative |
| 0014 | business general manager |
| 4162 | business intelligence analyst |
| 4163 | business issues lobbyist |
| 4021 | business law teacher |
| 2242 | business machine servicer |
| 1122 | business management analyst |
| 1122 | business management consultant |
| 0911 | business manager - manufacturing |
| 0114 | business manager - non-profit organization |
| 0124 | business manager - sales and advertising |
| 1122 | business methods analyst |
| 6552 | business office service representative - telecommunications |
| 2252 | business products designer |
| 1414 | business receptionist |
| 1221 | business representative - club, lodge or society |
| 0421 | business school director |
| 0014 | business school general manager |
| 0421 | business school manager |
| 0421 | business school principal |
| 1221 | business services officer |
| 1225 | business services purchasing officer |
| 6411 | business services sales representative |
| 4021 | business subjects teacher - vocational institute |
| 2171 | business systems analyst |
| 2171 | business systems specialist - computer systems |
| 4031 | business teacher - secondary school |
| 7246 | business telephone equipment installer and repairer |
| 7246 | business telephone equipment maintainer |
| 1314 | business valuation officer |
| 1314 | business valuator |
| 5232 | busker |
| 6331 | butcher - butcher shop |
| 6331 | butcher - delicatessen |
| 6331 | butcher - retail or wholesale |
| 6331 | butcher - wholesale |
| 6331 | butcher apprentice |
| 9617 | butcher helper - meat processing |
| 6421 | butcher shop clerk |
| 6742 | butler |
| 9465 | butter grader |
| 2222 | butter inspector |
| 9461 | butter maker |
| 9617 | butter packer |
| 9617 | butter sampler |
| 9617 | butter wrapper |
| 9465 | butterfat tester |
| 9619 | button assorter |
| 9537 | button designer and sample maker |
| 9435 | button envelope machine tender |
| 9537 | button finisher |
| 9537 | button machine operator |
| 9537 | button machine setter |
| 9537 | button maker |
| 9619 | button marker |
| 9537 | button press operator |
| 9446 | button sewer, machine |
| 9446 | button stayer |
| 9537 | button-covering machine setter |
| 9446 | buttonhole finisher |
| 9446 | buttonhole machine operator |
| 9446 | buttonhole maker |
| 9446 | buttonhole stayer |
| 9537 | button-moulder operator |
| 9537 | buttons inspector |
| 9619 | button-sorting machine feeder |
| 1225 | buyer - manufacturing and processing |
| 1225 | buyer - purchasing |
| 6222 | buyer - retail |
| 6222 | buyer - wholesale |
| 6222 | buyers supervisor |
| 1452 | by-law clerk |
| 4423 | by-law enforcement officer |
| 4423 | by-law enforcement officers supervisor |
| 9212 | by-products extraction foreman/woman - chemical processing |

## C

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|---|---|
| 3219 | C Ped (certified pedorthist) |
| 5125 | C. Int. (certified interpreter) |
| 5125 | C. Term. (certified terminologist) |
| 5125 | C. Tr. (certified translator) |
| 1111 | CA (chartered accountant) |
| 1111 | CA (chartered accountant) student |
| 6541 | cabin baggage inspector |
| 9532 | cabinet assembler - furniture manufacturing |
| 9532 | cabinet assembler - wood products manufacturing |
| 9224 | cabinet assembler and wood furniture maker foreman/woman |
| 9532 | cabinet inspector - furniture manufacturing |
| 0011 | cabinet minister |
| 0414 | Cabinet relations director |
| 0414 | Cabinet relations manager |
| 7272 | cabinetmaker |
| 7272 | cabinetmaker apprentice |
| 7204 | cabinetmakers foreman/woman |
| 7611 | cabinetmaker's helper |
| 7204 | cabinetmaking contractor |
| 9418 | cable armourer |

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|---|---|
| 6722 | cable car operator |
| 7533 | cable ferry deckhand |
| 7533 | cable ferry operator |
| 8616 | cable hooker - logging |
| 7202 | cable installation and repair foreman/woman - telecommunications |
| 7612 | cable installation and repair helper - telecommunications |
| 7202 | cable installation contractor |
| 7202 | cable installation foreman/woman |
| 7202 | cable installation supervisor |
| 7244 | cable installer - electric power systems |
| 7244 | cable installer - electrical power |
| 7245 | cable installer - telecommunications |
| 7244 | cable installer and repairer - electric power systems |
| 7612 | cable installer helper |
| 7202 | cable installers and repairers foreman/woman - telecommunications |
| 9418 | cable insulator |
| 9619 | cable insulator helper |
| 7244 | cable jointer - electric power systems |
| 7244 | cable line worker - electric power systems |
| 7202 | cable maintenance and repair supervisor |
| 7245 | cable repair technician - telecommunications |
| 7244 | cable repairer - electric power systems |
| 7245 | cable repairer - telecommunications |
| 7612 | cable repairer helper |
| 7612 | cable repairer helper - telecommunications |
| 8421 | cable skidder operator |
| 7244 | cable splicer - electric power systems |
| 7244 | cable splicer - electrical power |
| 7612 | cable splicer helper |
| 7202 | cable splicers foreman/woman - telecommunications |
| 7202 | cable splicing foreman/woman - telecommunications |
| 7246 | cable station tester - telecommunications |
| 7247 | cable television installation technician |
| 7247 | cable television installer |
| 7247 | cable television maintenance technician |
| 7247 | cable television service installation technician |
| 6421 | cable television service salesperson |
| 7202 | cable television system installers and repairers foreman/woman |
| 7247 | cable television technician |
| 7245 | cable tester - telecommunications |
| 7373 | cable tool driller - water well drilling |
| 7237 | cable welder |
| 7202 | cable workers front line supervisor |
| 8241 | cable yarding operator |
| 8241 | cable yarding system operator |
| 9418 | cable-braiding machine operator |
| 9527 | cable-coding machine tender - electrical equipment manufacturing |
| 7244 | cableman/woman - electric power systems |
| 7612 | cableman/woman helper |
| 9527 | cable-marking machine tender - electrical equipment manufacturing |
| 6421 | cable-TV and pay-TV sales representative |
| 7247 | cablevision servicer |
| 7202 | cablevision technician supervisor |
| 7202 | cablevision technicians foreman/woman |
| 2253 | CAD (computer-aided design) specialist - drafting |
| 2253 | CAD (computer-aided design) technologist |
| 2253 | CAD (computer-assisted drafting) |
| 2253 | CAD (computer-assisted drafting) draftsperson - printed circuit boards |
| 2253 | CAD (computer-assisted drafting) technician |
| 2253 | CAD operator |
| 2233 | CAD/CAM (computer-aided design/computer-assisted manufacturing) programmer |
| 2233 | CAD/CAM programmer |
| 2154 | cadastral surveyor |
| 6722 | caddie |
| 9411 | cadmium control operator - zinc leaching |
| 9536 | cadmium galvanizer |
| 9611 | cadmium leach helper |
| 9421 | cadmium liquor maker |
| 9411 | cadmium plant operator |
| 9411 | cadmium recoverer |
| 9411 | cadmium zinc leacher |
| 0631 | café manager |
| 6611 | cafeteria cashier |
| 6322 | cafeteria cook |
| 6711 | cafeteria counter attendant |
| 6711 | cafeteria helper |
| 0631 | cafeteria manager |
| 6311 | cafeteria supervisor |
| 6711 | cafeteria worker |
| 6711 | cafeteria-buffet attendant |
| 9416 | cage builder - metal fabrication |
| 9418 | cage maker - wire products manufacturing |
| 6211 | cage supervisor - casino |
| 8411 | cage tender |
| 8411 | cage tender - underground mining |
| 6332 | cake and pastry decorator - retail |
| 6332 | cake baker - retail |
| 6332 | cake decorator |
| 6332 | cake decorator - retail |
| 6332 | cake icer |
| 9461 | cake mix equipment operator - food and beverage processing |
| 9422 | cake press operator - plastic manufacturing |
| 9617 | cake wrapper |
| 9411 | calciner operator - mineral products processing |
| 9421 | calciner tender |
| 1434 | calculation clerk - insurance |
| 4031 | calculus teacher - secondary school |
| 6531 | calèche driver |

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| **6531** | calèche operator |
| **9615** | calender feeder - rubber and plastic products manufacturing |
| **9616** | calender helper - textile processing |
| **9423** | calender let-off operator - rubber products manufacturing |
| **9423** | calender machine operator - rubber products manufacturing |
| **9433** | calender man/woman - pulp and paper |
| **9422** | calender operator - plastic manufacturing |
| **9433** | calender operator - pulp and paper |
| **9423** | calender operator - rubber products manufacturing |
| **9441** | calender operator - textile manufacturing |
| **9422** | calender operator, multi-roll - plastic manufacturing |
| **9423** | calender roll warmer - rubber products manufacturing |
| **9422** | calender wind-up tender - plastic manufacturing |
| **9423** | calender wind-up tender - rubber products manufacturing |
| **9433** | calenderer - pulp and paper |
| **9214** | calendering foreman/woman - rubber and plastic manufacturing |
| **9422** | calendering machine tender - plastic manufacturing |
| **9441** | calendering machine tender - textile manufacturing |
| **9462** | calf skinner - meat packing plant |
| **2241** | calibration tester |
| **9524** | calibrator, thermostats - electrical equipment manufacturing |
| **6552** | call centre agent - customer service |
| **2282** | call centre agent - technical support |
| **6314** | call centre agent supervisor |
| **0125** | call centre manager |
| **6314** | call centre supervisor |
| **5241** | calligrapher |
| **5241** | calligraphic artist |
| **5254** | callisthenics instructor |
| **9537** | camera assembler |
| **9537** | camera assembly inspector |
| **5227** | camera crane operator |
| **6421** | camera equipment salesperson - retail |
| **9537** | camera inspector |
| **5222** | camera operator |
| **9472** | camera operator - graphic arts |
| **9472** | camera operator - printing |
| **7205** | camera repair shop supervisor |
| **7445** | camera repairer |
| **7445** | camera repairman/woman |
| **6421** | camera salesperson - retail |
| **0621** | camera store manager |
| **9417** | camming machine operator - metal machining |
| **6322** | camp cook |
| **6711** | camp cook's helper |
| **5254** | camp co-ordinator |
| **5254** | camp co-ordinator - sports and leisure |
| **5254** | camp counsellor |
| **5254** | camp leader |
| **6711** | camp lunchroom attendant |
| **0632** | camp manager |
| **6513** | camp waiter/waitress |
| **0124** | campaign manager |
| **6722** | campground attendant |
| **6733** | campground cleaner |
| **6722** | campground gate attendant |
| **8612** | campground maintenance worker |
| **0632** | campground manager |
| **0632** | campground operator |
| **6316** | campground supervisor |
| **6722** | campground worker |
| **0714** | campus maintenance manager |
| **9616** | can doffer - textile processing |
| **9463** | can filler - fish and seafood processing |
| **9465** | can inspector - food and beverage processing |
| **9418** | can inspector - metal products manufacturing |
| **9418** | can machine operator |
| **9418** | can machine setter |
| **7311** | can seamer machine repairer |
| **9441** | can tender |
| **2154** | Canada lands surveyor |
| **2264** | Canada Mortgage and Housing Corporation (CMHC) inspector |
| **1314** | Canadian residential appraiser (CRA) |
| **4311** | Canadian Security Intelligence Service (CSIS) investigator |
| **0714** | canal director |
| **7311** | canal equipment mechanic |
| **7533** | canal lock operator |
| **7533** | canal lock tender |
| **7533** | canal lockman/woman |
| **0714** | canal superintendent |
| **1252** | cancer registrar |
| **3212** | cancer research technician |
| **9461** | candied fruit processor |
| **9537** | candle decorator |
| **9227** | candle making foreman/woman |
| **9619** | candle manufacturing labourer |
| **9619** | candle-wrapping machine tender |
| **9461** | candy centre maker |
| **9617** | candy dipper, hand - food and beverage processing |
| **9465** | candy inspector |
| **9461** | candy maker |
| **9617** | candy maker helper |
| **9617** | candy packer |
| **9461** | candy puller and roller |
| **9617** | candy wrapper |
| **9461** | candy-cutting machine tender |

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| 9461 | candy-making machine tender |
| 9461 | candy-rolling machine operator |
| 9461 | candy-spinning machine operator - food and beverage processing |
| 9463 | can-filling machine operator - fish processing |
| 9461 | can-filling machine operator - food and beverage processing |
| 9418 | can-forming machine operator |
| 4311 | canine-team member - police |
| 9418 | can-making machine operator |
| 9418 | can-making machine setter |
| 9465 | canned and bottled foods inspector |
| 9461 | canned goods cooker |
| 9461 | canned milk sterilizer |
| 9213 | cannery foreman/woman - food processing |
| 9618 | cannery labourer |
| 9618 | cannery labourer - fish processing |
| 0911 | cannery manager |
| 9617 | cannery packer |
| 9617 | cannery worker - food and beverage processing |
| 9461 | canning machine operator |
| 9531 | canoe assembler |
| 5244 | canoe builder - arts and crafts |
| 9531 | canoe building inspector |
| 0632 | canoe camp operator |
| 9531 | canoe canvasser |
| 5244 | canoe repairer - arts and crafts |
| 6532 | canoeing guide |
| 5251 | canoeist |
| 9614 | cant loader - wood processing |
| 7514 | canteen driver |
| 0631 | canteen manager |
| 0631 | canteen service district manager |
| 0631 | canteen services manager |
| 6311 | canteen supervisor |
| 9431 | canter operator - sawmill |
| 7371 | cantilever crane operator |
| 4217 | cantor |
| 9537 | canvas awning maker |
| 9531 | canvas canoe waterproofer |
| 9445 | canvas cutter - fabric products manufacturing |
| 9537 | canvas goods assembler |
| 9447 | canvas goods inspector |
| 5245 | canvas goods maker |
| 5245 | canvas goods pattern designer and patternmaker |
| 9446 | canvas goods sewing machine operator |
| 5245 | canvas layer-out - textile products |
| 5245 | canvas pattern designer |
| 5245 | canvas patternmaker |
| 6411 | canvas product sales representative |
| 9217 | canvas products manufacturing foreman/woman |
| 9537 | canvas tent maker |
| 6623 | canvasser - retail |
| 6623 | canvassing agent |
| 9523 | capacitor assembler |
| 9523 | capacitor inspector |
| 9523 | capacitor-treating tank operator |
| 2147 | capacity planning analyst |
| 9465 | capon grader - food and beverage processing |
| 8252 | caponizing service contractor |
| 9527 | capping machine tender, dry cells - electrical equipment manufacturing |
| 9421 | capsule filler - chemical processing |
| 9421 | capsule machine operator |
| 9421 | capsule machine operator - chemical processing |
| 0433 | captain |
| 0433 | captain - air force |
| 2271 | captain - air transport |
| 0433 | captain - army |
| 0433 | captain - navy |
| 2273 | captain - water transport |
| 6513 | captain waiter/waitress |
| 6513 | captain waiter/waitress - food and beverage services |
| 6513 | captain waiter/waitress - formal service |
| 5122 | caption editor |
| 9522 | car assembler |
| 1525 | car assignments clerk |
| 6742 | car attendant |
| 6732 | car care worker |
| 7622 | car checker - railway |
| 7622 | car checker - railway transport |
| 7531 | car controller - railway |
| 0621 | car dealer |
| 0621 | car dealership manager |
| 6732 | car detailer |
| 9522 | car examiner - automobile assembly |
| 9522 | car inspector - automobile assembly |
| 7314 | car inspector - railway |
| 6742 | car jockey |
| 0621 | car leasing branch manager |
| 6421 | car leasing representative |
| 6742 | car lot attendant |
| 7321 | car mechanic |
| 9536 | car painter - manufacturing |
| 6611 | car park cashier |
| 6421 | car rental agent |
| 6421 | car rental clerk |
| 7314 | car repairer - railway |
| 7314 | car repairer apprentice - railway |
| 4421 | car repossessor |
| 7531 | car retarder operator - railway yard |
| 6421 | car sales representative - retail |
| 6421 | car salesperson - retail |
| 6732 | car scrubber |
| 9537 | car seat assembler |
| 9614 | car stacker - wood processing |
| 6742 | car storage attendant |

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| **6721** | car supplier - railway |
| **6732** | car wash attendant |
| **0651** | car wash manager |
| **6732** | car washer |
| **7622** | car weigher - railway |
| **9461** | caramel equipment operator |
| **9418** | carbide press tender |
| **7232** | carbide tool maker |
| **9421** | carbon black pelletizer |
| **9525** | carbon brush assembler |
| **9524** | carbon brush inspector |
| **9525** | carbon brush maker |
| **9435** | carbon coater operator |
| **8412** | carbon dioxide truck operator - oil field services |
| **9435** | carbon paper cutter |
| **9421** | carbon paste mixer operator |
| **9414** | carbon planer tender - stone products |
| **9524** | carbon products inspector |
| **9472** | carbon tissue cylinder preparer - printing |
| **9461** | carbonation equipment operator - food and beverage processing |
| **9461** | carbonator - food and beverage processing |
| **9435** | carbon-coating machine operator |
| **9441** | carbonizer tender - textile manufacturing |
| **9435** | carbon-paper-making machine operator |
| **9619** | carbon-rod-inserting machine feeder |
| **9526** | carburetor assembler |
| **9526** | carburetor assembly inspector |
| **9462** | carcass splitter - meat packing plant |
| **9617** | carcass washer - food and beverage processing |
| **9617** | carcass weigher - food and beverage processing |
| **9441** | card feeder - textile manufacturing |
| **1411** | card filer |
| **7311** | card fixer |
| **7311** | card fixer - textile manufacturing |
| **7311** | card grinder |
| **7311** | card grinder - textile manufacturing |
| **9442** | card lacer - textiles |
| **9441** | card operator - textile manufacturing |
| **6564** | card reader |
| **9217** | card room supervisor - textiles |
| **7311** | card setter - textile manufacturing |
| **6421** | card shop clerk |
| **9441** | card stripper - textile manufacturing |
| **9441** | card tender - textile manufacturing |
| **9435** | cardboard box gluer |
| **9435** | cardboard box maker - paper converting |
| **9435** | cardboard box press operator |
| **9435** | cardboard maker - paper converting |
| **9435** | cardboard-tube-winding machine operator - paper converting |
| **9441** | carder - textile manufacturing |
| **3217** | cardiac catheterization technician |
| **3217** | cardiac catheterization technologist |
| **3216** | cardiac sonographer |
| **3217** | cardiac stress technologist |
| **3111** | cardiac surgeon |
| **3012** | cardiac surgery nurse |
| **3217** | cardiac technician |
| **3216** | cardiac ultrasound technician |
| **3216** | cardiac ultrasound technologist |
| **4154** | cardinal |
| **9616** | carding machine cleaner - textile processing |
| **9441** | carding machine feeder - textile manufacturing |
| **7311** | carding machine fixer - textile manufacturing |
| **9441** | carding machine operator - textile manufacturing |
| **9441** | carding machine tender - textile manufacturing |
| **3111** | cardiologist |
| **3217** | cardiology instructor |
| **3012** | cardiology nurse |
| **3012** | cardiology nurse technician |
| **3111** | cardiology specialist |
| **3217** | cardiology supervisor |
| **3217** | cardiology technician |
| **3217** | cardiology technologist |
| **3214** | cardiopulmonary technician |
| **3214** | cardiopulmonary technologist |
| **3214** | cardiopulmonary technology instructor |
| **3214** | cardiopulmonary technology supervisor |
| **3111** | cardiothoracic surgeon |
| **3111** | cardiovascular and thoracic surgeon |
| **3111** | cardiovascular and thoracic surgery specialist |
| **3214** | cardiovascular perfusion clinical instructor |
| **3214** | cardiovascular perfusion instructor |
| **3214** | cardiovascular perfusion supervisor |
| **3214** | cardiovascular perfusion technologist |
| **3214** | cardiovascular perfusionist |
| **3111** | cardiovascular surgeon |
| **3217** | cardiovascular technician |
| **3217** | cardiovascular technologist |
| **1123** | career agent |
| **4031** | career and life management teacher |
| **4031** | career and technology studies teacher |
| **4156** | career coach |
| **4033** | career counsellor - education |
| **4156** | career counsellor (except education) |
| **0411** | career development and employment district director - government services |
| **4156** | career development counsellor |
| **0411** | career development director - government services |
| **4156** | career development facilitator |
| **4156** | career development practitioner |
| **4031** | career education teacher |
| **4031** | career exploration teacher |
| **4156** | career group facilitator |

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| 0411 | career information director - government services |
| 4156 | career resource centre co-ordinator |
| 6523 | cargo agent - airline |
| 7534 | cargo attendant - air transport |
| 1315 | cargo broker |
| 6523 | cargo customer service representative - airline |
| 6524 | cargo customer service representative - bus line |
| 6524 | cargo customer service representative - marine shipping |
| 6524 | cargo customer service representative - railway |
| 7534 | cargo handler - air transport |
| 7302 | cargo handling supervisor |
| 7534 | cargo loader - air transport |
| 1521 | cargo location clerk |
| 2262 | cargo surveyor |
| 7301 | carhouse supervisor - railway transportation |
| 5241 | caricaturist |
| 5133 | carillonneur |
| 7314 | carman/woman - railway |
| 7622 | carman/woman helper - railway |
| 7314 | carman/woman inspector - railway |
| 9611 | carnallite flux maker |
| 6722 | carousel operator |
| 7271 | carpenter |
| 7611 | carpenter helper |
| 7271 | carpenter lead hand |
| 7271 | carpenter rough |
| 7204 | carpenter supervisor |
| 7204 | carpenter-contractor |
| 7271 | carpenter-joiner |
| 7204 | carpenters foreman/woman |
| 7204 | carpentry contractor |
| 7204 | carpentry foreman/woman |
| 2264 | carpentry inspector |
| 7271 | carpentry repairman/woman |
| 7204 | carpentry supervisor |
| 9446 | carpet binder |
| 6732 | carpet cleaner |
| 0651 | carpet cleaning service manager |
| 6315 | carpet cleaning supervisor |
| 9441 | carpet drying machine tender |
| 9441 | carpet drying machine tender - textile manufacturing |
| 9447 | carpet inspector |
| 7295 | carpet installer |
| 7295 | carpet layer |
| 7611 | carpet layer helper |
| 7311 | carpet loom fixer - textile manufacturing |
| 7311 | carpet loom setter - textile manufacturing |
| 7611 | carpet mechanics helper |
| 9446 | carpet sewer |
| 9537 | carpet tape machine tender |
| 9442 | carpet weaver |
| 9442 | carpet-tufting machine operator |
| 9442 | carpet-weaving machine operator |
| 6421 | car-rental counter representative |
| 6541 | carry-on baggage inspector |
| 6411 | cartage and storage salesperson |
| 0731 | cartage company manager |
| 2255 | cartographer |
| 2255 | cartographic compiler |
| 2255 | cartographic draftsman/woman |
| 2131 | cartographic engineer |
| 2255 | cartographic technician |
| 2255 | cartographic technologist |
| 9435 | carton assembler - paper converting |
| 9617 | carton bander |
| 9619 | carton filler |
| 9435 | carton forming machine operator |
| 9435 | carton gluer |
| 9619 | carton labeller |
| 9619 | carton marker |
| 9617 | carton package stapler |
| 9619 | carton stamper |
| 9619 | carton wrapper |
| 9614 | carton-forming machine feeder |
| 7311 | carton-forming machine repairer |
| 9435 | carton-making machine operator |
| 9617 | carton-packaging machine tender - food and beverage processing |
| 5223 | cartoon background artist |
| 5245 | cartoon embroidery enlarger |
| 5241 | cartoon film artist |
| 5241 | cartoonist |
| 5241 | cartoonist sketch |
| 9537 | cartridge assembler |
| 9611 | cartridge flux maker |
| 9537 | cartridge inspector |
| 9612 | cartridge parts cleaner - explosives and ammunition manufacturing |
| 9418 | cartridge primers drop tester |
| 9537 | cartridge-filler operator |
| 9537 | cartridge-loader machine operator |
| 5244 | carver |
| 9437 | carver operator - woodworking |
| 9437 | carving machine operator - woodworking |
| 6315 | carwash supervisor |
| 9461 | cascade blender - tobacco processing |
| 4212 | case aide - social services |
| 9537 | case assembler and finisher |
| 9619 | case filler |
| 9411 | case hardener - primary metal processing |
| 9619 | case liner |
| 1243 | case load planner - home health care services |
| 9533 | case maker, wood |
| 4152 | case management consultant - social work |
| 4152 | case management social worker |
| 4155 | case management worker - corrections |
| 4155 | case manager - corrections |

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| 3143 | case manager occupational therapist |
| 9619 | case marker |
| 9619 | case packer |
| 1228 | case review officer - immigration |
| 9617 | case stacker - food and beverage processing |
| 4152 | case work consultant - social work |
| 9617 | caser - tobacco processing |
| 4152 | casework supervisor - social work |
| 4152 | caseworker - social work |
| 1431 | cash on delivery (COD) clerk |
| 1212 | cash receipts supervisor |
| 6611 | cashier |
| 6211 | cashier supervisor - retail |
| 6611 | cashier-wrapper |
| 9465 | casing grader - food and beverage processing |
| 9461 | casing machine operator - food and beverage processing |
| 9461 | casing machine operator - tobacco processing |
| 9461 | casing machine tender - tobacco processing |
| 9617 | casing salter - food and beverage processing |
| 9617 | casing shirrer - food and beverage processing |
| 9617 | casing stripper - food and beverage processing |
| 9473 | casing-in machine set-up operator - printing |
| 9473 | casing-in machine tender - printing |
| 6611 | casino cashier |
| 6533 | casino dealer |
| 6313 | casino dealer supervisor |
| 0015 | casino general manager |
| 0513 | casino operations manager |
| 6313 | casino pit boss |
| 6533 | casino runner |
| 6313 | casino section head |
| 6313 | casino shift manager |
| 6533 | casino slot machine attendant |
| 9437 | cask maker |
| 9533 | casket frame assembler, wood |
| 9619 | casket liner |
| 9532 | casket maker, wood |
| 9533 | casket moulding setter, wood |
| 9533 | casket top frame fitter, wood |
| 9619 | casket trimmer |
| 6345 | casket upholsterer |
| 3414 | cast room technician |
| 9414 | caster - concrete products |
| 9422 | caster - plastic manufacturing |
| 1123 | casting agent |
| 1123 | casting agent for extras |
| 5131 | casting director |
| 9611 | casting helper |
| 9611 | casting house labourer |
| 9611 | casting machine helper |
| 9412 | casting machine operator |
| 9412 | casting machine operator - foundry |
| 9411 | casting machine operator - primary metal processing |
| 9211 | casting operations foreman/woman |
| 9211 | casting room foreman/woman |
| 9422 | casting room operator - plastic manufacturing |
| 9611 | casting wheel operator helper |
| 9611 | castings cleaner - primary metal and mineral products processing |
| 9415 | castings inspector - foundry |
| 9415 | castings tester - primary metal and mineral products processing |
| 9611 | castings trimmer |
| 3012 | casual duty nurse |
| 7621 | casual worker - public works |
| 2161 | casualty actuary |
| 1312 | casualty insurance adjuster |
| 1313 | casualty insurance products analyst-designer |
| 1313 | casualty underwriter - insurance |
| 3144 | CAT (certified athletic therapist) |
| 0821 | cat breeder |
| 7521 | cat operator |
| 7521 | cat skinner |
| 6623 | catalogue agent - retail |
| 6411 | catalogue agent - wholesale |
| 1452 | catalogue compiler |
| 5241 | catalogue illustrator |
| 6623 | catalogue sales agent - retail |
| 5111 | cataloguer - library |
| 5212 | cataloguer - museum |
| 5211 | cataloguing technician |
| 9613 | catalyst operator helper, gasoline |
| 9232 | catalytic conversion operator |
| 9232 | catalytic cracking unit operator |
| 0621 | category manager |
| 4163 | category sales analyst |
| 6322 | caterer cook |
| 6711 | caterer helper |
| 6513 | caterer waiter/waitress |
| 0631 | catering service manager |
| 6311 | catering supervisor |
| 7521 | caterpillar car operator |
| 7521 | caterpillar operator |
| 7535 | caterpillar servicer (except mechanic) |
| 7312 | caterpillar tractor repairer |
| 9523 | cathode coater - electronic equipment manufacturing |
| 9611 | cathode loader |
| 9523 | cathode-ray-tube-processing equipment setter |
| 9411 | cathode-stripping machine operator - zinc electrolysis |
| 9461 | catsup maker |
| 6222 | cattle buyer |
| 0621 | cattle dealer |
| 8252 | cattle feedlot foreman/woman |

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| 8252 | cattle herdsperson |
| 8252 | cattle ranch foreman/woman |
| 8431 | cattle ranch labourer |
| 8431 | cattle ranch worker |
| 0821 | cattle rancher |
| 7247 | CATV (community antenna television) installation technician - telecommunications |
| 7247 | CATV (community antenna television) maintenance technician |
| 7247 | CATV (community antenna television) service installation technician - telecommunications |
| 7247 | CATV (community antenna television) technician - cable television |
| 7247 | CATV (community antenna television) technician - telecommunications |
| 7247 | CATV technician |
| 7611 | caulker - construction |
| 9232 | caustic cell operator |
| 9432 | caustic plant operator |
| 9432 | causticizer operator |
| 9432 | causticizing operator - pulp and paper |
| 3214 | CCP (certified clinical perfusionist) |
| 3223 | CDT (certified dental technician) |
| 7291 | cedar shakes shingler |
| 7291 | cedar shingler |
| 4021 | CEGEP (general and vocational college) teacher |
| 4021 | CEGEP teacher |
| 7284 | ceiling installer |
| 7284 | ceiling system installer |
| 5241 | cell animator |
| 2121 | cell biologist |
| 9411 | cell operator - primary metal and mineral processing |
| 9415 | cell tester - primary metal processing |
| 9213 | cellar master |
| 5133 | cellist |
| 5244 | cello maker |
| 5133 | cello teacher - private, conservatory or studio lessons |
| 9422 | cellophane bag machine operator - plastic manufacturing |
| 9422 | cellophane bag maker - plastic manufacturing |
| 9535 | cellophane finisher - plastic manufacturing |
| 9422 | cellophane making worker - plastic manufacturing |
| 9617 | cellophaner - tobacco products |
| 7246 | cellular phone installer |
| 2121 | cellular physiologist |
| 7246 | cellular telephone installer |
| 7246 | cellular telephone technician |
| 9421 | cellulose film caster - chemical processing |
| 9421 | cellulose film dry-end tender |
| 9421 | cellulose film rewinder |
| 2211 | cellulose film solutions tester |
| 9421 | cellulose film wet-end tender |
| 7611 | cement and concrete pump tender |
| 9619 | cement applicator - shoe manufacturing |
| 9414 | cement block maker - concrete products |
| 9414 | cement block moulder - concrete products |
| 7282 | cement finisher |
| 7282 | cement finisher apprentice |
| 7205 | cement finisher foreman/woman |
| 7611 | cement finisher helper |
| 7205 | cement finishing contractor |
| 7611 | cement gun nozzle operator |
| 7611 | cement gun operator |
| 7452 | cement loader and sacker |
| 9211 | cement manufacturing supervisor |
| 7282 | cement mason |
| 7282 | cement mason apprentice |
| 9411 | cement miller |
| 9411 | cement mixer - primary metal and mineral products processing |
| 7611 | cement mixer operator - construction |
| 9414 | cement pipe shaper operator - concrete products |
| 9415 | cement plant inspector |
| 9414 | cement polisher |
| 9211 | cement processing foreman/woman |
| 9211 | cement processing supervisor |
| 7611 | cement pump operator |
| 9411 | cement pumping tender |
| 7205 | cement smoother foreman/woman |
| 7511 | cement truck driver - construction |
| 8412 | cement truck driver - oil field services |
| 9411 | cementation equipment operator |
| 8412 | cementer - oil field services |
| 9423 | cementer - rubber products manufacturing |
| 9423 | cementer operator - rubber products manufacturing |
| 9619 | cementer, hand - shoe manufacturing |
| 9619 | cementer, knife parts - processing and manufacturing |
| 9615 | cementer, tire repair - rubber products manufacturing |
| 9527 | cement-filling machine operator - electrical equipment manufacturing |
| 8412 | cementing equipment operator - oil field services |
| 8255 | cemetery foreman/woman |
| 8612 | cemetery labourer |
| 0714 | cemetery manager |
| 8612 | cemetery worker |
| 1213 | census area manager |
| 1213 | census area manager assistant |
| 1454 | census clerk |
| 1213 | census commissioner |
| 1213 | census commissioner assistant |
| 1213 | census district manager |
| 1454 | census enumerator |
| 1454 | census taker |

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| **1454** | census worker |
| **7313** | central air conditioner installer |
| **7313** | central air conditioner repairer |
| **7313** | central air conditioning installer |
| **7313** | central air conditioning mechanic |
| **7313** | central air conditioning repairer |
| **7313** | central air conditioning servicer |
| **9231** | central control caster |
| **9231** | central control caster - primary metal processing |
| **9231** | central control operator - cement manufacturing |
| **9241** | central control room operator - electrical power systems |
| **9231** | central control room operator - primary metal and mineral products processing |
| **9231** | central control room operator - primary metal processing |
| **7246** | central office equipment inspector - telecommunications |
| **7246** | central office equipment installer - telecommunications |
| **7246** | central office equipment maintainer - telecommunications |
| **7246** | central office equipment repairer - telecommunications |
| **7246** | central office frame servicer - telecommunications |
| **7246** | central office repairer - telecommunications |
| **7246** | central office technician - telecommunications |
| **7246** | central office tester - telecommunications |
| **3414** | central service room worker - hospital |
| **3414** | central supply aide |
| **3414** | central supply aide - medical |
| **3414** | central supply room supervisor - hospital |
| **3414** | central supply room technician - hospital |
| **2275** | centralized traffic control (CTC) operator - railway traffic |
| **2275** | centralized traffic controller - railway traffic |
| **9241** | central-office power control room operator - electrical power systems |
| **0421** | centre assistant manager - hotel school |
| **9417** | centreless cylindrical grinder set-up operator |
| **9417** | centreless cylindrical-grinder operator |
| **9417** | centreless grinder operator |
| **9417** | centreless grinder set-up operator |
| **9432** | centri-cleaner tender - pulp and paper |
| **9412** | centrifugal casting machine operator |
| **9412** | centrifugal casting machine tender - foundry |
| **9441** | centrifugal extractor - textile manufacturing |
| **9421** | centrifugal separator tender - chemical processing |
| **9461** | centrifugal station tender - food and beverage processing |
| **9463** | centrifuge machine tender - fish processing |
| **9441** | centrifuge operator - textile manufacturing |
| **9421** | centrifuge tender - chemical processing |
| **9617** | centrifuge tender - food and beverage processing |
| **9617** | centrifuge tender - meat packing plant |
| **0016** | CEO (chief executive officer) - manufacturing company |
| **0013** | CEO (chief executive officer) - telephone company |
| **9536** | ceramic and enamel refinisher |
| **5244** | ceramic artist |
| **3223** | ceramic denture caster |
| **3223** | ceramic denture mechanic |
| **3223** | ceramic denture mechanic-moulder |
| **3223** | ceramic denture moulder |
| **9536** | ceramic enameler |
| **9412** | ceramic mouldmaker |
| **9412** | ceramic mouldmaker - foundry |
| **9536** | ceramic painter |
| **5244** | ceramic potter |
| **9536** | ceramic spray painter |
| **9536** | ceramic sprayer |
| **7283** | ceramic tile installer |
| **9414** | ceramic tile press operator - concrete products |
| **7283** | ceramic tilesetter |
| **5112** | ceramics and glass conservator |
| **2142** | ceramics engineer |
| **5244** | ceramics teacher (except education) |
| **5244** | ceramist |
| **0821** | cereal and oilseed grower |
| **0821** | cereal and oilseed producer |
| **9461** | cereal baker - food and beverage processing |
| **9461** | cereal cleaner |
| **9461** | cereal cooker and extruder operator |
| **0821** | cereal farm manager |
| **0821** | cereal grower |
| **9461** | cereal maker - food and beverage processing |
| **9461** | cereal oven tender |
| **0821** | cereal producer |
| **9461** | cereal-cleaning equipment operator |
| **9461** | cereal-coating operator |
| **9473** | Cerlox binder operator |
| **9473** | Cerlox binder operator - printing |
| **7315** | certified aircraft technician |
| **3144** | certified athletic therapist (CAT) |
| **3141** | certified audiologist |
| **2244** | certified avionics technician |
| **3214** | certified clinical perfusionist (CCP) |
| **2234** | certified construction estimator |
| **3411** | certified dental assistant |
| **3223** | certified dental technician |
| **1121** | certified disability management professional |
| **6563** | certified dog master |
| **4161** | certified ergonomist |
| **5254** | certified fitness apraiser |
| **1111** | certified general accountant (CGA) |

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| **3141** | certified hearing aid audiologist |
| **4161** | certified industrial hygienist |
| **5242** | certified interior designer |
| **5125** | certified interpreter (C.Int.) |
| **3411** | certified intra-oral dental assistant |
| **3232** | certified iridologist |
| **3144** | certified kinesiologist |
| **6523** | certified load control agent - airline |
| **6523** | certified load planner - airline |
| **1111** | certified management accountant (CMA) |
| **1122** | certified management consultant |
| **3233** | certified nursing assistant (CNA) |
| **3219** | certified orthotist (CO) |
| **3219** | certified pedorthist (C Ped) |
| **5254** | certified personal trainer |
| **3219** | certified prosthetist |
| **3219** | certified prosthetist-orthotist (CPO) |
| **3232** | certified reflexologist |
| **4212** | certified return-to-work co-ordinator - disability management |
| **4212** | certified return-to-work facilitator - disability management |
| **3232** | certified rolfer |
| **3232** | certified rolfing movement teacher |
| **4152** | certified social worker |
| **5125** | certified terminologist (C.Term.) |
| **5125** | certified translator (C.Tr.) |
| **6732** | cesspool cleaner |
| **0013** | CFO (chief financial officer) - advertising agency |
| **0016** | CFO (chief financial officer) - urban transit system |
| **1111** | CGA (certified general accountant) |
| **9423** | chafer builder |
| **9442** | chain builder - textiles |
| **9614** | chain conveyor tender - sawmill |
| **9614** | chain conveyor tender - wood processing |
| **9418** | chain inspector |
| **7441** | chain link fence erector |
| **9537** | chain maker, hand - jewellery manufacturing |
| **8421** | chain saw operator - logging |
| **9418** | chain tester |
| **9418** | chain tester, machine |
| **9616** | chainer - textile processing |
| **9418** | chain-link fence machine operator |
| **9418** | chain-making machine feeder |
| **9418** | chain-making machine operator |
| **9418** | chain-making machine tender |
| **7612** | chainman/woman - land surveying |
| **9442** | chainman/woman - textiles |
| **9614** | chainman/woman - wood processing |
| **9418** | chain-testing machine tender |
| **9532** | chair assembler |
| **9224** | chair assembly foreman/woman - furniture and fixtures manufacturing |
| **9532** | chair caner - furniture manufacturing |
| **9532** | chair inspector - furniture manufacturing |

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| **9437** | chair leveler - woodworking |
| **9619** | chair sander |
| **9437** | chair seat planer tender |
| **9532** | chair seat weaver |
| **9619** | chair trimmer |
| **6345** | chair upholsterer |
| **0013** | chairman/woman - financial, communications and other business services |
| **0012** | chairman/woman - government services |
| **0014** | chairman/woman - health, education, social and community services and membership organizations |
| **0015** | chairman/woman - trade, broadcasting and other services |
| **0013** | chairperson - financial, communications and other business services |
| **0012** | chairperson - government services |
| **0014** | chairperson - health, education, social and community services and membership organizations |
| **0015** | chairperson - trade, broadcasting and other services |
| **3411** | chair-side assistant - dental |
| **9611** | chalk extruder |
| **9611** | chalk moulder - mineral products processing |
| **0423** | Chamber of Commerce administrator |
| **6731** | chambermaid |
| **6315** | chambermaid supervisor |
| **9418** | chamfering and boring machine operator - metal products manufacturing |
| **9418** | chamfering machine tender |
| **0014** | chancellor - education |
| **4154** | chancellor - religion |
| **9418** | chandelier maker |
| **9619** | channel closer - shoe manufacturing |
| **9412** | channel furnace operator - foundry |
| **0124** | channel marketing manager |
| **0601** | channel sales manager |
| **9537** | channeler - footwear manufacturing |
| **5132** | chansonnier |
| **4154** | chaplain |
| **9617** | char filter helper - food and beverage processing |
| **9461** | char filter tender - food and beverage processing |
| **9213** | char house foreman/woman - food and beverage processing |
| **9617** | char kiln helper - food and beverage processing |
| **9461** | char kiln tender - food and beverage processing |
| **5241** | character animator |
| **5136** | charcoal artist |
| **9421** | charcoal burner |
| **9411** | charge control operator |
| **1414** | charge operator - telephone system |
| **3217** | charge technologist - electrocardiography |

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| **3211** | charge technologist - medical laboratory |
| **9611** | charge weigher - primary metal processing |
| **9527** | charger - electrical equipment manufacturing |
| **9537** | charger - jewellery manufacturing |
| **9611** | charger helper - primary metal processing |
| **9527** | charger operator - electrical equipment manufacturing |
| **9411** | charging car operator |
| **7246** | charging equipment attendant - telecommunications |
| **9411** | charging machine operator - mineral and metal processing |
| **9527** | charging room operator - electrical equipment manufacturing |
| **0014** | charitable organization director |
| **0014** | charitable organization executive director |
| **1454** | chart clerk |
| **7533** | charter boat captain |
| **7533** | charter boat master |
| **7533** | charter boat operator |
| **7512** | charter bus driver |
| **2271** | charter pilot |
| **1111** | chartered accountant (CA) |
| **1111** | chartered accountant (CA) student |
| **0114** | chartered administrator - management |
| **1314** | chartered appraiser |
| **1314** | chartered business valuator (CBV) |
| **1112** | chartered financial analyst |
| **3232** | chartered herbalist |
| **1111** | chartered professional accountant, certified general accountant (CPA, CGA) |
| **1111** | chartered professional accountant, certified management accountant (CPA, CMA) |
| **1111** | chartered professional accountant, chartered accountant (CPA, CA) |
| **4151** | chartered psychologist |
| **0114** | chartered secretary - management |
| **1315** | chartered shipbroker |
| **6731** | charworker |
| **8421** | chaser - logging |
| **9523** | chassis assembler - electronic equipment manufacturing |
| **9522** | chassis assembler - motor vehicle manufacturing |
| **9522** | chassis assembly inspector - motor vehicle manufacturing |
| **9221** | chassis assembly supervisor - motor vehicle manufacturing |
| **9522** | chassis inspector - motor vehicle manufacturing |
| **9523** | chassis installer - electronic equipment manufacturing |
| **6564** | chat line agent |
| **7305** | chauffeurs and taxi drivers supervisor |
| **7305** | chauffeurs supervisor |
| **2271** | check pilot |
| **6741** | checker - laundry and dry cleaning |
| **9437** | checkerer, small arms |
| **6523** | check-in agent - airline |
| **6524** | check-in agent (except airline) |
| **6742** | checkroom attendant |
| **9461** | cheese blender - food and beverage processing |
| **9461** | cheese cooker |
| **9617** | cheese cutter |
| **9617** | cheese factory worker |
| **9465** | cheese grader |
| **9461** | cheese grater |
| **9461** | cheese maker |
| **9617** | cheese maker helper |
| **6321** | chef |
| **6321** | chef de cuisine |
| **6321** | chef de partie |
| **6321** | chef pâtissier |
| **2211** | chemical analysis specialist |
| **2211** | chemical analyst |
| **8612** | chemical applicator - lawn care |
| **2134** | chemical coating engineer |
| **2134** | chemical engineer |
| **4011** | chemical engineering professor - university |
| **2211** | chemical engineering technician |
| **2211** | chemical engineering technologist |
| **2211** | chemical forensic lab analyst |
| **2211** | chemical laboratory analyst |
| **2211** | chemical laboratory supervisor |
| **2211** | chemical laboratory technician |
| **2211** | chemical laboratory technologist |
| **9432** | chemical liquor preparation operator - pulp and paper |
| **0212** | chemical manager |
| **9474** | chemical mixer - photographic processing |
| **2113** | chemical oceanographer |
| **2111** | chemical physicist |
| **9613** | chemical plant labourer |
| **9421** | chemical plant machine operator |
| **7311** | chemical plant service mechanic |
| **2211** | chemical process analyst |
| **2134** | chemical process control engineer |
| **2134** | chemical process engineer |
| **7311** | chemical process equipment mechanic |
| **7612** | chemical process equipment mechanic helper |
| **9232** | chemical process operator |
| **2211** | chemical process technologist |
| **9232** | chemical process unit operator |
| **9232** | chemical processing chief technician |
| **2211** | chemical processing laboratory tester |
| **9212** | chemical processing plant foreman/woman |
| **2211** | chemical processing quality control technician |
| **2211** | chemical processing quality control technologist |
| **9212** | chemical processing supervisor |

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| 2211 | chemical products quality control technologist |
| 2134 | chemical project engineer |
| 9432 | chemical pulping plant operator - pulp and paper |
| 0212 | chemical research division manager |
| 2211 | chemical research technician |
| 2211 | chemical research technologist |
| 9232 | chemical roaster |
| 8412 | chemical services operator - oil field services |
| 9432 | chemical solutions operator - pulp and paper |
| 2112 | chemical spectroscopist |
| 2211 | chemical technician |
| 2211 | chemical technician - heavy water plant and nuclear generating station |
| 2211 | chemical technologist |
| 4021 | chemical technology teacher |
| 8412 | chemical truck operator - oil field services |
| 9212 | chemical unit foreman/woman |
| 7316 | chemical-processing machine builder |
| 6221 | chemicals sales representative |
| 2112 | chemist |
| 2112 | chemist - biomolecular assembly |
| 4011 | chemistry professor - university |
| 2112 | chemistry research scientist |
| 2112 | chemistry researcher |
| 2161 | chemistry statistician |
| 4021 | chemistry teacher - agricultural school |
| 4031 | chemistry teacher - secondary school |
| 9432 | chemi-thermomechanical pulp (CTMP) machine assistant operator |
| 9432 | chemi-thermomechanical pulp (CTMP) operator |
| 9432 | chemi-wash operator - pulp and paper |
| 9441 | chenille tender - textile manufacturing |
| 1431 | cheque control clerk |
| 5254 | chess instructor |
| 5251 | chess player |
| 9617 | chewing gum batch mixer |
| 9617 | chewing gum production attendant |
| 9461 | chewing-gum machine tender |
| 8431 | chick sexer |
| 8431 | chicken catcher |
| 0821 | chicken farmer |
| 9462 | chicken plucker |
| 9461 | chicle centrifuge operator - food and beverage processing |
| 9617 | chicle-grinder feeder - food and beverage processing |
| 0012 | chief - disaster management |
| 1111 | chief accountant |
| 0212 | chief actuary |
| 0012 | chief administrative officer - government services |
| 0012 | chief administrative officer - regional municipality |
| 2272 | chief air traffic controller |
| 7301 | chief aircraft maintenance engineer (AME) |
| 3234 | chief ambulance attendant |
| 7301 | chief AME (aircraft maintenance engineer) |
| 2151 | chief architect |
| 0511 | chief archivist |
| 6222 | chief buyer |
| 6222 | chief buyer - retail or wholesale |
| 6211 | chief canvasser - retail |
| 2134 | chief chemical engineer |
| 2131 | chief civil engineer |
| 2223 | chief cruiser |
| 0511 | chief curator |
| 4421 | chief deputy sheriff |
| 0431 | chief detective - police |
| 3216 | chief diagnostic medical sonographer |
| 0311 | chief dietitian |
| 5212 | chief display officer - museum |
| 2253 | chief draftsperson |
| 0012 | chief electoral officer |
| 2133 | chief electrical engineer |
| 7202 | chief electrician |
| 3217 | chief electroencephalograph technologist |
| 3217 | chief electromyography (EMG) technologist |
| 2133 | chief electronics engineer |
| 3217 | chief EMG (electromyography) technologist |
| 2133 | chief engineer - electric power |
| 2133 | chief engineer - radio and television broadcasting |
| 2274 | chief engineer - water transport |
| 2234 | chief estimator - construction |
| 0013 | chief executive officer (CEO) - financial, communications and other business services |
| 0016 | chief executive officer (CEO) - goods production, utilities, transportation and construction |
| 0014 | chief executive officer (CEO) - health, education, social and community services and membership organizations |
| 0016 | chief executive officer (CEO) - manufacturing company |
| 0013 | chief executive officer (CEO) - telephone company |
| 0015 | chief executive officer (CEO) - trade, broadcasting and other services |
| 5212 | chief exhibit officer - museum |
| 0013 | chief financial officer (CFO) - advertising agency |
| 0013 | chief financial officer (CFO) - financial, communications and other business services |
| 0016 | chief financial officer (CFO) - goods production, utilities, transportation and construction |
| 0014 | chief financial officer (CFO) - health, education, social and community services and membership organizations |
| 0015 | chief financial officer (CFO) - trade, broadcasting and other services |

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| 0016 | chief financial officer (CFO) - urban transit system |
| 9231 | chief flotation operator |
| 2271 | chief flying instructor |
| 6511 | chief host/hostess - food services |
| 0431 | chief inspector - police |
| 1221 | chief invigilator |
| 4111 | chief justice |
| 0511 | chief librarian |
| 5226 | chief lighting technician |
| 2274 | chief marine engineer - water transport |
| 2132 | chief mechanical engineer |
| 0311 | chief of anatomical pathology |
| 0311 | chief of anesthesia |
| 0311 | chief of audiology and speech language pathology |
| 0311 | chief of biomedical engineering service |
| 0311 | chief of cardiology |
| 0311 | chief of dermatology |
| 0311 | chief of diagnostic imaging |
| 0311 | chief of diagnostic radiology |
| 0311 | chief of emergency medicine |
| 0311 | chief of endocrinology |
| 0311 | chief of gastro-enterology |
| 0311 | chief of hematology |
| 0311 | chief of housing activities |
| 0311 | chief of infectious diseases |
| 0311 | chief of laboratory medicine |
| 0311 | chief of medical staff |
| 0311 | chief of medicine |
| 0311 | chief of nephrology |
| 0311 | chief of neurology |
| 0311 | chief of obstetrics and gynecology |
| 0311 | chief of occupational therapy |
| 0311 | chief of operating area |
| 0311 | chief of ophthalmology |
| 0311 | chief of pathology |
| 0311 | chief of pediatrics |
| 0311 | chief of pharmacy |
| 0311 | chief of physiotherapy |
| 0431 | chief of police |
| 1224 | chief of property management |
| 0414 | chief of protocol |
| 0311 | chief of psychiatry |
| 0311 | chief of psychology |
| 0311 | chief of radiation oncology |
| 0311 | chief of respirology |
| 0311 | chief of rheumatology |
| 0311 | chief of staff - hospital |
| 0311 | chief of surgery |
| 0311 | chief of urology |
| 0013 | chief operating officer - engineering firm |
| 0013 | chief operating officer - financial, communications and other business services |
| 0016 | chief operating officer - goods production, utilities, transportation and construction |
| 0014 | chief operating officer - health, education, social and community services and membership organizations |
| 0015 | chief operating officer - trade, broadcasting and other services |
| 9232 | chief operator - chemical processing |
| 9231 | chief operator - zinc pressure leach |
| 3125 | chief orthoptist |
| 3214 | chief perfusionist |
| 2145 | chief petroleum engineer |
| 4313 | chief petty officer first class |
| 4313 | chief petty officer second class |
| 5221 | chief photographer |
| 2271 | chief pilot |
| 2271 | chief pilot - air transport |
| 9212 | chief power engineer |
| 5212 | chief preparator |
| 5212 | chief preparator - museums and art galleries |
| 0016 | chief privacy officer - construction, transportation, production and utilities |
| 0013 | chief privacy officer - financial, communications and other business services |
| 0012 | chief privacy officer - government services |
| 0014 | chief privacy officer - health, education, social and community services and membership organizations |
| 0015 | chief privacy officer - trade, broadcasting and other services, n.e.c. |
| 2134 | chief process engineer |
| 3215 | chief radiographer |
| 0311 | chief radiology technologist |
| 3215 | chief radiotherapy technologist |
| 2275 | chief rail traffic controller |
| 3214 | chief respiratory technologist |
| 0112 | chief safety officer - occupational health and safety |
| 2223 | chief scaler |
| 6316 | chief security guard |
| 4421 | chief sheriff |
| 5226 | chief stage electrician |
| 9212 | chief stationary engineer |
| 0012 | chief statistician - government services |
| 6522 | chief steward - ship |
| 9212 | chief substation operator |
| 0431 | chief superintendent |
| 0431 | chief superintendent - police |
| 0422 | chief superintendent - schools |
| 1414 | chief telephone operator |
| 2275 | chief train dispatcher |
| 4313 | chief warrant officer |
| 6513 | chief wine steward |
| 4153 | child and family counsellor |
| 4153 | child and youth counsellor |
| 4212 | child and youth worker |
| 4413 | child care attendant - elementary school |
| 4164 | child care licensing officer |
| 4411 | child care live-in caregiver |

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| **4411** | child care provider - private home |
| **4214** | child care worker - daycare |
| **4214** | child care worker assistant |
| **4411** | child caregiver - private home |
| **4165** | child health care programs planning officer |
| **4212** | child life specialist |
| **4411** | child minder |
| **4151** | child psychologist |
| **4216** | child safety educator |
| **3111** | child specialist |
| **4164** | child welfare policy analyst |
| **0411** | child welfare regional manager - government services |
| **0423** | child welfare services administrator |
| **0411** | child welfare services manager - government services |
| **4152** | child welfare social worker |
| **4212** | child welfare worker |
| **0423** | child-care centre administrator |
| **4164** | child-care programs planning officer |
| **4021** | child-care service teacher |
| **4021** | child-care service teacher - college level |
| **4164** | child-care services liaison officer |
| **4212** | child-care worker (except day care) |
| **4152** | children's aid investigator |
| **0423** | children's aid society director |
| **6421** | children's clothing sales clerk |
| **4153** | children's counsellor |
| **4411** | children's guardian |
| **5111** | children's services librarian |
| **6421** | children's wear sales clerk |
| **6421** | children's wear salesperson - retail |
| **9421** | chiller operator - chemical processing |
| **9421** | chiller tender - chemical processing |
| **9617** | chilling worker - food and beverage processing |
| **7281** | chimney bricklayer |
| **6732** | chimney cleaner |
| **7281** | chimney repair bricklayer |
| **7281** | chimney repair stonemason |
| **6732** | chimney sweep |
| **6421** | china and crystal salesperson - retail |
| **3232** | Chinese medicine doctor (CMD) |
| **3232** | Chinese medicine practitioner |
| **9614** | chip bin attendant - wood processing |
| **9614** | chip dump operator - wood processing |
| **9431** | chip reclaim operator - sawmill |
| **9434** | chip screen tender - wood processing |
| **9614** | chip silo attendant - wood processing |
| **9614** | chip storage attendant - wood processing |
| **9434** | chip-mixing machine tender - wood processing |
| **9431** | Chip-N-Saw operator - sawmill |
| **9612** | chipper - metal products manufacturing |
| **9434** | chipper operator |
| **9434** | chipper operator - wood processing |
| **9612** | chipper-grinder |
| **9612** | chipper-grinder - metal products manufacturing |
| **8241** | chipping machine operator |
| **8241** | chipping machine operator - logging |
| **3125** | chiropodist |
| **3414** | chiropractic aide |
| **3414** | chiropractic assistant |
| **3122** | chiropractic doctor |
| **3414** | chiropractic health assistant |
| **3414** | chiropractic office assistant |
| **3122** | chiropractor |
| **3414** | chiropractor aide |
| **9612** | chisel grinder - metal products manufacturing |
| **9232** | chlor-alkali plant cell room operator |
| **9232** | chlorination plant operator |
| **9212** | chlorine plant foreman/woman |
| **9232** | chlorine plant operator |
| **9213** | chocolate candy processing foreman/woman |
| **9461** | chocolate chips maker |
| **9461** | chocolate coater - food and beverage processing |
| **9461** | chocolate crumbs maker |
| **9213** | chocolate factory foreman/woman |
| **6332** | chocolate maker |
| **9461** | chocolate moulder, machine |
| **9617** | chocolate packer, hand |
| **9617** | chocolate processing helper |
| **9461** | chocolate refiner |
| **9213** | chocolate refining foreman/woman |
| **9461** | chocolate temperer |
| **5132** | choir director |
| **5132** | choir leader |
| **5132** | choirmaster |
| **8616** | choke setter - logging |
| **9523** | choke winder - electronic equipment manufacturing |
| **8616** | chokerman/woman |
| **8616** | chokerman/woman - logging |
| **9441** | chopping machine tender |
| **5132** | choral conductor |
| **5132** | choral director |
| **8431** | chore hand - agriculture |
| **5131** | choreographer |
| **5133** | chorister |
| **5134** | chorus dancer |
| **5132** | chorus master |
| **4217** | Christian Science nurse - non-medical |
| **4217** | Christian science practitioner |
| **4217** | Christian science worker |
| **0822** | Christmas tree farm operator |
| **8432** | Christmas tree shearer |
| **8432** | Christmas tree trimmer |
| **9536** | chromium plater |
| **5123** | chronicler |
| **9461** | chub sausage machine tender |
| **9462** | chuck cap puller - meat packing plant |

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| 9437 | chucking and boring machine operator - woodworking |
| 9437 | chucking machine operator - woodworking |
| 9417 | chucking machine set-up operator |
| 5251 | chuckwagon driver |
| 5251 | chuckwagon racer - stampede |
| 6733 | church caretaker |
| 5133 | church organist |
| 1241 | church secretary |
| 4217 | church worker |
| 7373 | churn drill operator - water well drilling |
| 7611 | churn drill operator helper - water well |
| 8231 | chute blaster |
| 8231 | chute blaster - underground mining |
| 8411 | chute gate operator - underground mining |
| 8411 | chute loader - underground mining |
| 8411 | chute operator - underground mining |
| 8614 | chute puller |
| 9461 | cider maker |
| 9461 | cider plant worker |
| 9617 | cigar bander |
| 9617 | cigar brander |
| 9461 | cigar bunch maker |
| 9461 | cigar buncher |
| 9461 | cigar dryer |
| 9461 | cigar filler, mixer and shredder |
| 9465 | cigar grader |
| 9461 | cigar maker |
| 9461 | cigar maker, hand |
| 9461 | cigar maker, machine |
| 9461 | cigar moulder, hand |
| 9461 | cigar patcher |
| 9461 | cigar roller, hand |
| 9617 | cigar wrapper |
| 9537 | cigarette case maker |
| 9461 | cigarette filter machine tender |
| 9465 | cigarette grader |
| 9213 | cigarette grader foreman/woman |
| 9537 | cigarette holder maker |
| 9213 | cigarette inspector foreman/woman |
| 9461 | cigarette machine tender |
| 9461 | cigarette maker |
| 9461 | cigarette maker operator |
| 9617 | cigarette packer |
| 9461 | cigarette roller |
| 9461 | cigarette stamper |
| 9465 | cigarette tester |
| 9461 | cigarette tipper |
| 6623 | cigarette vendor |
| 9617 | cigar-wrapping machine tender |
| 2141 | CIM (computer integrated manufacturing) engineer |
| 9414 | cinder block machine operator - concrete products |
| 7281 | cinder block mason |
| 7281 | cinder block setter |
| 7371 | cinder crane operator |
| 5131 | cinematographer |
| 2161 | cipher expert |
| 9523 | circuit board assembler |
| 9524 | circuit breaker assembler |
| 9524 | circuit breaker assembly tester |
| 9525 | circuit breaker fitter - industrial electrical equipment |
| 7333 | circuit breaker mechanic |
| 2133 | circuit design engineer |
| 2241 | circuit designer - railway |
| 1513 | circular distributor - courier service |
| 9442 | circular knitter |
| 9442 | circular knitting machine knitter |
| 7384 | circular saw filer |
| 9431 | circular saw operator |
| 9414 | circular saw operator - concrete, clay and stone products |
| 9431 | circular saw operator - sawmill |
| 9437 | circular saw operator - woodworking |
| 3012 | circulating nurse |
| 1451 | circulation assistant |
| 1451 | circulation clerk - library |
| 0124 | circulation manager |
| 5232 | circus artist |
| 5232 | circus performer |
| 5227 | circus rigger |
| 5231 | circus ringmaster |
| 1228 | citizen services officer (CSO) - government services |
| 1227 | citizenship judge |
| 4164 | citizenship officer |
| 1228 | citizenship registration examiner |
| 9461 | citrus juice extractor |
| 0012 | city administrator |
| 0011 | city alderman |
| 4112 | city attorney |
| 0011 | city councillor |
| 0011 | city councilman/woman |
| 5122 | city editor |
| 0012 | city hall clerk |
| 0012 | city manager |
| 0411 | city medical officer of health - government services |
| 2153 | city planner |
| 2153 | city planner - land use |
| 4112 | city solicitor |
| 0012 | city superintendent |
| 2154 | city surveyor |
| 3112 | civil aviation medical officer |
| 2253 | civil draftsperson |
| 1221 | civil emergency measures officer |
| 2131 | civil engineer |
| 2231 | civil engineering design technologist |
| 0211 | civil engineering division manager |
| 4011 | civil engineering professor - university |
| 2231 | civil engineering studies technologist |
| 2231 | civil engineering technician |

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|---|---|
| 2231 | civil engineering technologist |
| 2131 | civil environmental engineer |
| 2131 | civil inspection engineer |
| 4112 | civil lawyer |
| 2131 | civil material and testing engineer |
| 2131 | civil pipeline engineer |
| 2131 | civil structural engineer |
| 7441 | cladder |
| 9611 | cladding assembler - primary metal processing |
| 4112 | claim attorney |
| 1111 | claims accountant |
| 1228 | claims adjudication officer - employment insurance |
| 1228 | claims adjudicator - employment insurance |
| 1312 | claims adjuster - insurance |
| 1212 | claims adjusters supervisor |
| 0411 | claims and benefits control chief - employment insurance |
| 1312 | claims approver - insurance |
| 1434 | claims clerk - insurance |
| 1435 | claims collector |
| 1312 | claims consultant |
| 1312 | claims examiner |
| 1312 | claims examiner - insurance |
| 1312 | claims investigator |
| 1312 | claims investigator - insurance |
| 1121 | claims manager - compensation and benefits |
| 1221 | claims officer |
| 1228 | claims processing officer - immigration |
| 1312 | claims representative |
| 1312 | claims representative - insurance |
| 1212 | claims service supervisor |
| 6564 | clairvoyant |
| 8613 | clam digger |
| 8262 | clam dredge operator |
| 8262 | clam fisherman/woman |
| 9463 | clam shucker - fish and seafood processing |
| 9463 | clam steamer - fish and seafood processing |
| 9533 | clamp carrier |
| 9619 | clamp remover - wood products manufacturing |
| 9472 | clamper - camera and platemaking |
| 7611 | clamper - construction |
| 9525 | clamper, transformer assembly coils |
| 9437 | clamping machine tender - woodworking |
| 9463 | clam-shucking machine tender - fish and seafood processing |
| 9461 | clarifying equipment tender - food and beverage processing |
| 5134 | classical dance instructor |
| 5134 | classical dancer |
| 4031 | classical languages secondary school teacher |
| 4011 | classics professor - university |
| 0112 | classification and compensation chief |
| 1411 | classification clerk |
| 1415 | classification clerk - human resources |
| 4155 | classification counsellor - corrections |
| 4155 | classification officer - correctional institution |
| 1121 | classification officer - human resources |
| 1121 | classification policy adviser |
| 1121 | classification specialist |
| 6411 | classified ad salesperson |
| 1452 | classified advertising clerk |
| 5111 | classifier - library |
| 9611 | classifier helper - primary metal and mineral products processing |
| 9411 | classifier operator |
| 4413 | classroom assistant - primary and secondary school |
| 9414 | clay dry press operator |
| 9414 | clay insulator builder - clay products |
| 5136 | clay modeller |
| 9414 | clay pipe bender |
| 9211 | clay preparation foreman/woman |
| 9414 | clay press operator |
| 9611 | clay press worker |
| 9611 | clay products finisher |
| 9415 | clay products grader |
| 9414 | clay products machine operator |
| 9211 | clay products manufacturing foreman/woman |
| 9414 | clay products moulder |
| 9414 | clay products polisher |
| 9211 | clay shop foreman/woman |
| 9414 | clay structure moulder and installer |
| 9414 | clay temperer - clay products |
| 9415 | clay tile grader - mineral products processing |
| 9211 | clay, glass and stone furnace and kiln operations foreman/woman |
| 9211 | clay, glass and stone furnace and kiln operators supervisor |
| 9414 | clayware driller |
| 9414 | clayware turner |
| 9414 | claywork moulder |
| 6731 | cleaner |
| 6741 | cleaner - laundry and dry cleaning |
| 6741 | cleaner and presser - laundry and dry cleaning |
| 6315 | cleaner supervisor |
| 9619 | cleaner, porcelain enamel products |
| 9461 | cleaning and classifying operator - tobacco processing |
| 6315 | cleaning and maintenance supervisor |
| 9421 | cleaning compounds mixer |
| 6731 | cleaning lady |
| 6741 | cleaning machine operator - laundry and dry cleaning |
| 6731 | cleaning man/woman |
| 6623 | cleaning products salesperson - door-to-door sales |
| 0015 | cleaning service general manager |
| 6411 | cleaning services sales representative |
| 6315 | cleaning supervisor |

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|---|---|
| **6731** | clean-up crew worker |
| **9437** | clean-up sander - woodworking |
| **7384** | clearance diver |
| **8422** | clearing saw operator - forestry |
| **9437** | cleat notcher - woodworking |
| **4155** | clemency officer - corrections |
| **4154** | clergyman/woman |
| **1411** | clerical assistant |
| **1211** | clerical supervisor |
| **1434** | clerk - financial sector |
| **0414** | Clerk - Legislative Assembly |
| **1227** | clerk of probate |
| **1227** | clerk of proceedings - courts |
| **1416** | clerk of process - courts |
| **5253** | clerk of scales - racetrack |
| **0414** | clerk of the committee - Legislative Assembly |
| **5253** | clerk of the course - harness racing |
| **5253** | clerk of the course - horseback racing |
| **5253** | clerk of the course - racetrack |
| **1227** | clerk of the court |
| **1227** | clerk of the Crown - courts |
| **0012** | clerk of the House of Commons |
| **0414** | Clerk of the Legislative Assembly |
| **0012** | Clerk of the Privy Council |
| **1414** | clerk switchboard operator |
| **1212** | clerks supervisor - bank or financial institution |
| **1411** | clerk-stenographer |
| **4412** | client care attendant - home care |
| **1122** | client group supervisor |
| **6552** | client service clerk |
| **6523** | client service representative - airline |
| **6524** | client service representative - bus line |
| **2282** | client support representative - systems |
| **2255** | climate data processor |
| **2255** | climate service technician |
| **2255** | climatological technician |
| **2114** | climatologist |
| **7371** | climbing crane operator |
| **7371** | climbing tower crane operator |
| **3414** | clinic assistant - medical |
| **3012** | clinic nurse |
| **3141** | clinical audiologist |
| **2148** | clinical biomedical engineer |
| **2112** | clinical chemist |
| **4153** | clinical counsellor |
| **3132** | clinical dietitian |
| **3232** | clinical hypnotherapist |
| **3111** | clinical immunologist |
| **3111** | clinical immunologist-allergist |
| **3111** | clinical immunology and allergy specialist |
| **3211** | clinical immunology technologist |
| **3414** | clinical laboratory helper |
| **3212** | clinical laboratory technician |
| **3211** | clinical laboratory technologist |
| **3012** | clinical nurse |
| **3012** | clinical nurse specialist |
| **3132** | clinical nutritionist |
| **3143** | clinical occupational therapist |
| **3143** | clinical occupational therapy specialist |
| **3125** | clinical orthoptist |
| **3111** | clinical pathologist |
| **3214** | clinical perfusion clinical instructor |
| **3214** | clinical perfusion supervisor |
| **3214** | clinical perfusionist |
| **3131** | clinical pharmacist |
| **3111** | clinical pharmacologist |
| **3142** | clinical physical therapist |
| **3142** | clinical physiotherapist |
| **0212** | clinical projects manager |
| **4151** | clinical psychologist |
| **4165** | clinical research associate |
| **4165** | clinical research program manager |
| **0311** | clinical services manager |
| **4165** | clinical trials co-ordinator |
| **9619** | clip-loading machine feeder |
| **9434** | clipper operator - wood processing |
| **9441** | clipping machine tender |
| **1452** | clipping marker |
| **6742** | cloakroom attendant |
| **9537** | clock and timer movement automated line assembler |
| **9537** | clock and watch assembler |
| **9227** | clock and watch assembly foreman/woman |
| **9537** | clock and watch assembly inspector |
| **9227** | clock and watch assembly repairers foreman/woman |
| **9227** | clock and watch assembly repairers supervisor |
| **9227** | clock and watch assembly supervisor |
| **9537** | clock and watch dial installer |
| **9537** | clock and watch finisher |
| **9537** | clock and watch hairspring truer |
| **9227** | clock and watch inspection foreman/woman |
| **9537** | clock and watch movements tester |
| **9537** | clock assembler |
| **9537** | clock assembly adjuster |
| **9537** | clock balance wheel assembler |
| **9537** | clock finisher |
| **9537** | clock hairspring calibrator |
| **9537** | clock hairspring maker |
| **9537** | clock part die casting assembler |
| **6344** | clock repairer |
| **6344** | clock repairman/woman |
| **6421** | clock shop clerk |
| **9537** | clock spring assembler |
| **9537** | clock staker |
| **6344** | clockmaker |
| **9537** | clockmaker - manufacturing |
| **1251** | closed captioner |
| **2242** | closed circuit television installer |
| **2264** | closed circuit TV sewer inspector |
| **9446** | closer - sewing |

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| 9446 | closer sewing machine operator |
| 9619 | cloth baler - textiles |
| 9441 | cloth bleacher |
| 9616 | cloth carrier |
| 9445 | cloth cutter - fabric products manufacturing |
| 9441 | cloth dryer |
| 9441 | cloth dyer |
| 9447 | cloth examiner |
| 9441 | cloth finisher |
| 9616 | cloth folder, hand |
| 9447 | cloth grader |
| 9447 | cloth inspector |
| 9619 | cloth layer - garment manufacturing |
| 9447 | cloth measurer |
| 9446 | cloth mender |
| 9441 | cloth mercerizer operator |
| 9441 | cloth neutralizer |
| 9616 | cloth offbearer |
| 9441 | cloth printer |
| 9442 | cloth ribber |
| 9447 | cloth sampler |
| 9441 | cloth shade maker |
| 9441 | cloth shader |
| 9441 | cloth shrinker |
| 9447 | cloth sorter |
| 9441 | cloth steamer |
| 9441 | cloth stretcher-dryer tender |
| 9447 | cloth tester |
| 9616 | cloth turner |
| 9441 | cloth washer - textile manufacturing |
| 9442 | cloth weaver |
| 9616 | cloth winder |
| 9441 | cloth-bleaching range tender |
| 9445 | cloth-cutting machine operator - fabric products manufacturing |
| 9441 | cloth-doubling machine operator |
| 9441 | cloth-dyeing range tender |
| 9524 | clothes dryer assembler, electric |
| 6741 | clothes presser - laundry and dry cleaning |
| 9441 | cloth-finishing range operator |
| 6222 | clothing buyer |
| 9445 | clothing cutter |
| 9445 | clothing cutter - clothing manufacturing |
| 4021 | clothing design teacher |
| 5243 | clothing designer |
| 0911 | clothing factory manager |
| 9447 | clothing inspector |
| 6741 | clothing ironer - laundry and dry cleaning |
| 9217 | clothing manufacturing foreman/woman |
| 9619 | clothing plant labourer |
| 0113 | clothing purchasing director |
| 0113 | clothing purchasing manager |
| 6421 | clothing salesperson |
| 6421 | clothing salesperson - retail |
| 0621 | clothing store manager |
| 9447 | cloth-measuring machine tender |
| 9441 | cloth-neutralizing and cloth-rinsing machine operator |
| 9441 | cloth-printing machine helper |
| 9441 | cloth-printing machine tender |
| 9441 | cloth-printing roller changer |
| 9441 | cloth-processing range tender |
| 2173 | cloud administrator |
| 2173 | cloud architect |
| 2174 | cloud developer |
| 2173 | cloud engineer |
| 5232 | clown |
| 6513 | club car attendant |
| 6722 | clubhouse attendant |
| 6316 | clubhouse attendants supervisor |
| 9526 | clutch assembler |
| 9526 | clutch inspector |
| 9526 | clutch preassembler |
| 9526 | clutch rebuilder |
| 1111 | CMA (certified management accountant) |
| 3232 | CMD (Chinese medicine doctor) |
| 2264 | CMHC (Canada Mortgage and Housing Corporation) inspector |
| 3233 | CNA (certified nursing assistant) |
| 9417 | CNC (computer numerical control) lathe operator - metal machining |
| 9417 | CNC (computer numerical control) machining tool operator |
| 7231 | CNC (computer numerical control) machinist |
| 2233 | CNC (computer numerical control) Mastercam programmer |
| 9417 | CNC (computer numerical control) profile mill operator |
| 2233 | CNC (computer numerical control) programmer |
| 9437 | CNC (computer numerically controlled) band saw operator |
| 9416 | CNC (computer numerically controlled) brake press operator |
| 9416 | CNC (computer numerically controlled) brake press set-up operator |
| 9417 | CNC (computer numerically controlled) machine set-up operator - metal machining |
| 9417 | CNC (computer numerically controlled) machining centre operator |
| 2233 | CNC (computer numerically controlled) technologist |
| 9437 | CNC (computer numerically controlled) woodworking machine tool operator |
| 9417 | CNC machining tool operator |
| 2233 | CNC/CMM (computer numerically controlled coordinate measuring machine) programmer |
| 3219 | CO (certified orthotist) |
| 5252 | coach |
| 9526 | coach assembler - bus assembly |
| 9411 | coal breaker |
| 7452 | coal conveyor operator |
| 7452 | coal conveyor operator - surface mining |

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| **7452** | coal dumper |
| **7331** | coal furnace installer |
| **7331** | coal furnace installer-mechanic |
| **9232** | coal gas exhaust operator |
| **2113** | coal geologist |
| **7452** | coal handler |
| **8411** | coal hauler - underground mining |
| **7511** | coal hauler (except underground mining) |
| **7452** | coal loader-unloader |
| **1525** | coal mine car dispatcher |
| **8221** | coal mine foreman/woman |
| **8231** | coal miner |
| **2142** | coal preparation consulting engineer |
| **8614** | coal sampler |
| **9411** | coal screener |
| **9411** | coal separator |
| **9232** | coal tar distiller |
| **9411** | coal washer |
| **7452** | coal wheeler |
| **9211** | coal-and-coke crushing and grinding foreman/woman |
| **7452** | coal-moving equipment operator |
| **9411** | coarse salt equipment operator |
| **2274** | Coast Guard vessel chief engineer |
| **2273** | Coast Guard vessel chief officer |
| **2273** | Coast Guard vessel commanding officer |
| **2274** | Coast Guard vessel first watchkeeping engineer |
| **2273** | Coast Guard vessel first watchkeeping officer |
| **2274** | Coast Guard vessel marine engineer officer |
| **2273** | Coast Guard vessel navigation officer |
| **2274** | Coast Guard vessel second engineer |
| **2273** | Coast Guard vessel second officer |
| **2274** | Coast Guard vessel second watchkeeping engineer |
| **2273** | Coast Guard vessel second watchkeeping officer |
| **2274** | Coast Guard vessel senior engineer |
| **2274** | Coast Guard vessel third engineer |
| **2273** | Coast Guard vessel third officer |
| **2274** | Coast Guard vessel third watchkeeping engineer |
| **2273** | Coast Guard vessel third watchkeeping officer |
| **2273** | Coast Guard vessel watchkeeping officer |
| **2131** | coastal engineer |
| **6742** | coat and hat checker |
| **9527** | coater - electrical equipment manufacturing |
| **9441** | coater operator - textile manufacturing |
| **9441** | coater tender - textile manufacturing |
| **9435** | coater-laminator - paper products |
| **9212** | coating and calendering worker foreman/woman - chemical processing |
| **9441** | coating and embossing unit operator - textile manufacturing |
| **9421** | coating compounds mixer - chemical processing |
| **9536** | coating equipment operator |
| **9536** | coating equipment operator - metal plating |
| **9613** | coating machine feeder - chemical processing |
| **9615** | coating machine feeder - plastic products manufacturing |
| **9615** | coating machine feeder - rubber products manufacturing |
| **9614** | coating machine helper |
| **9421** | coating machine operator - chemical processing |
| **9527** | coating machine operator - electrical equipment manufacturing |
| **9536** | coating machine operator - industrial painting and coating |
| **9441** | coating machine operator - textile manufacturing |
| **9421** | coating machine tender - chemical processing |
| **9536** | coating machine tender - product manufacturing |
| **9441** | coating machine tender - textile manufacturing |
| **9536** | coating oven tender - manufacturing |
| **9461** | coating pan operator - food and beverage processing |
| **9215** | coating room foreman/woman - pulp and paper |
| **9536** | coating tank dipper |
| **2112** | coatings chemist |
| **9421** | coatings mixer - chemical processing |
| **6343** | cobbler |
| **6513** | cocktail waiter/waitress |
| **9617** | cocoa bean cleaner |
| **9617** | cocoa bean press-mill helper |
| **9461** | cocoa bean roaster |
| **9617** | cocoa bean roaster helper |
| **9461** | cocoa bean-shelling machine tender |
| **9461** | cocoa butter filterer |
| **9461** | cocoa mill operator |
| **9617** | cocoa powder mixer |
| **9461** | cocoa-nib grinder |
| **1431** | COD (cash on delivery) clerk |
| **1454** | coding clerk - statistics |
| **9527** | coding machine tender - electrical equipment manufacturing |
| **9461** | coffee blender |
| **9461** | coffee grinder |
| **9524** | coffee maker assembler |
| **9461** | coffee roaster |
| **9213** | coffee roasting foreman/woman |
| **9617** | coffee-blending machine feeder |
| **9532** | coffin and casket fitter |
| **9423** | cogger, rubber belts |
| **4151** | cognitive psychologist |

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| **9524** | coil adjuster - electrical equipment manufacturing |
| **9523** | coil assembler - electronic equipment manufacturing |
| **9525** | coil assembler - industrial electrical equipment |
| **9611** | coil bander - primary metal processing |
| **9525** | coil builder - industrial electrical equipment |
| **7333** | coil connector repairer |
| **9524** | coil finisher - electrical equipment manufacturing |
| **9525** | coil former - industrial electrical equipment |
| **9523** | coil inspector - electronic equipment manufacturing |
| **9418** | coil machine operator |
| **9525** | coil maker - industrial electrical equipment |
| **9525** | coil shaper - industrial electrical equipment |
| **9612** | coil spring grinder - metal products manufacturing |
| **9418** | coil spring machine tender |
| **9524** | coil taper - electrical equipment manufacturing |
| **7333** | coil winder and repairer |
| **9222** | coil winding foreman/woman - electronics manufacturing |
| **8412** | coiled tubing operator - oil field services |
| **9418** | coiler - metal products manufacturing |
| **9411** | coiler operator - primary metal processing |
| **9418** | coiling machine operator - metal products manufacturing |
| **9418** | coil-rewind machine tender |
| **9523** | coil-winding machine operator - electronic equipment manufacturing |
| **9525** | coil-winding machine setter - industrial electrical equipment |
| **9524** | coil-winding machine tender - automatic electrical equipment |
| **0621** | coin dealer |
| **6742** | coin laundry attendant |
| **9421** | coke by-products pump operator - chemical processing |
| **9411** | coke by-products pump operator - primary metal processing |
| **9411** | coke calciner operator |
| **9411** | coke grinder |
| **9415** | coke inspector - primary metal processing |
| **9611** | coke loader - primary metal processing |
| **9411** | coke oven door operator |
| **9411** | coke oven heater |
| **9611** | coke oven heater helper |
| **9411** | coke oven operator |
| **9211** | coke ovens foreman/woman |
| **9231** | coke plant by-products operator |
| **9415** | coke sampler and tester - primary metal processing |
| **9411** | coke screen tender |
| **9211** | coke screening foreman/woman |
| **9211** | coke screening foreman/woman - mineral and metal processing |
| **9411** | coke-screen and coke-blender tender |
| **9416** | cold drawn operator - metal forging |
| **6321** | cold foods chef |
| **9611** | cold mill feeder - primary metal processing |
| **9231** | cold mill operator - primary metal processing |
| **9416** | cold press operator - metal forging |
| **9437** | cold press tender - woodworking |
| **9611** | cold roll catcher - primary metal processing |
| **9611** | cold rolling mill feeder - primary metal processing |
| **9411** | cold steel roller - steel production |
| **9411** | cold steel rolling mill operator |
| **1423** | cold-composition typographer |
| **7622** | cold-storage checker - transport |
| **0651** | cold-storage manager |
| **1423** | cold-typesetting typographer |
| **9537** | collar and belt turner |
| **9473** | collating machine operator - printing |
| **9619** | collator tender - printing |
| **9619** | collator-inserter tender - printing |
| **1414** | collect call operator - telephone system |
| **6411** | collection agency sales representative |
| **1228** | collection agent - government services |
| **1435** | collection agent (except taxation) |
| **0132** | collection and delivery operations manager - postal service |
| **0122** | collection centre manager |
| **1435** | collection clerk |
| **1212** | collection clerks supervisor |
| **1242** | collection legal assistant |
| **0122** | collection manager |
| **0122** | collection manager - bank or trust company |
| **1228** | collection officer - taxation |
| **1435** | collection officer (except taxation) |
| **4211** | collection paralegal |
| **1212** | collection supervisor |
| **7522** | collection truck driver - public works |
| **1228** | collection unit head - government services |
| **5113** | collections archivist |
| **0111** | collections department manager |
| **1435** | collections investigation officer |
| **1121** | collective agreement negotiator |
| **1435** | collector |
| **1228** | collector of taxes |
| **0014** | college chancellor |
| **4033** | college counsellor |
| **0421** | college director - post-secondary education |
| **4021** | college instructor |
| **4012** | college laboratory assistant |
| **4021** | college lecturer |
| **4021** | college of applied arts and technology instructor |
| **4021** | college of applied arts and technology teacher |
| **0014** | college president |

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| 0422 | college principal - secondary level |
| 0421 | college registrar |
| 4021 | college teacher |
| 4012 | college teaching assistant |
| 7322 | collision repair technician |
| 0433 | colonel |
| 9471 | colour and large copier operator |
| 5241 | colour artist - cartoons |
| 5242 | colour consultant - home decorating |
| 9471 | colour copier operator |
| 9472 | colour correction scanning machine operator |
| 9472 | colour edition preparer - printing |
| 9474 | colour film analyzer - photographic processing |
| 9447 | colour grader - textiles |
| 9421 | colour grinder tender - chemical processing |
| 9421 | colour matcher - chemical processing |
| 9447 | colour matcher - textiles |
| 9441 | colour mixer - textile manufacturing |
| 9421 | colour mixer, prints - chemical processing |
| 9471 | colour photocopier operator |
| 9471 | colour photocopy operator |
| 9523 | colour picture tube assembler |
| 9472 | colour printer-technician - photographic processing |
| 9472 | colour scanner operator - printing |
| 9472 | colour separation assistant - scanning |
| 9472 | colour separation camera operator |
| 9472 | colour separation camera operator - printing |
| 9472 | colour separation electronic scanning machine operator |
| 9472 | colour separation operator |
| 5225 | colour timer - video |
| 9421 | colour weigher and mixer |
| 9472 | colour-editing terminal operator - printing |
| 9441 | colourer tender - hide and pelt processing |
| 5241 | colourist - cartoons |
| 9441 | colourist - textile manufacturing |
| 9232 | column operator - chemical processing |
| 5123 | columnist |
| 7311 | comb fixer - textile manufacturing |
| 9537 | comb maker |
| 7311 | comb setter - textile manufacturing |
| 4313 | combat engineer |
| 9441 | combed sliver dyer - textile manufacturing |
| 9441 | comber - textile manufacturing |
| 7246 | combination man/woman - telecommunications |
| 7237 | combination welder |
| 8431 | combine operator |
| 3212 | combined laboratory and x-ray technician |
| 3211 | combined laboratory and x-ray technologist |
| 9614 | combiner machine helper |
| 9433 | combiner machine operator - paper mill |
| 9441 | combining and drawing machine tender - textile manufacturing |
| 9415 | combustion tester, furnace - primary metal processing |
| 5135 | comedian |
| 5135 | comic |
| 0433 | commander |
| 0431 | commanding officer - police |
| 2273 | commanding officer - water transport |
| 5123 | commentator |
| 4163 | commerce officer |
| 4031 | commerce teacher - secondary school |
| 0601 | commercial accounts manager |
| 6411 | commercial agent - wholesale |
| 7313 | commercial air conditioning mechanic |
| 7612 | commercial air conditioning mechanic helper |
| 2271 | commercial airline pilot |
| 0412 | commercial analysis director - government services |
| 6221 | commercial and industrial equipment and supplies sales representative - technical wholesale |
| 6411 | commercial and industrial equipment and supplies sales representative - wholesale (non-technical) |
| 5231 | commercial announcer |
| 4021 | commercial art instructor |
| 4021 | commercial art teacher |
| 5241 | commercial artist |
| 0122 | commercial attaché |
| 7332 | commercial bakery appliance technician |
| 6235 | commercial banking accounts officer |
| 0122 | commercial banking manager |
| 7294 | commercial building painter |
| 1224 | commercial building rental agent |
| 0711 | commercial construction manager |
| 7294 | commercial construction painter |
| 5241 | commercial design artist |
| 5241 | commercial designer |
| 0132 | commercial development manager - postal and courier services |
| 4163 | commercial development officer - government |
| 7384 | commercial diver |
| 2253 | commercial draftsperson |
| 7332 | commercial foodservice appliance technician |
| 7384 | commercial free-diver |
| 7332 | commercial laundry appliance technician |
| 1242 | commercial law administrative assistant |
| 4211 | commercial law clerk |
| 1242 | commercial law legal assistant |
| 4112 | commercial law notary |
| 4211 | commercial law paralegal |
| 1242 | commercial law secretary |
| 4112 | commercial lawyer |
| 0122 | commercial mortgages accounts manager |
| 0122 | commercial mortgages manager |
| 0124 | commercial network development manager |
| 5221 | commercial photographer |

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| 2271 | commercial pilot |
| 7381 | commercial press operator |
| 1224 | commercial property manager |
| 6232 | commercial real estate agent |
| 6232 | commercial real estate salesperson |
| 7313 | commercial refrigeration mechanic |
| 9524 | commercial refrigerator assembler |
| 4163 | commercial research analyst |
| 6411 | commercial salesperson - wholesale |
| 7384 | commercial scuba diver |
| 6316 | commercial security officers supervisor |
| 9446 | commercial sewing machine operator |
| 7441 | commercial sign erector |
| 7441 | commercial sign installer |
| 7384 | commercial skin diver |
| 4021 | commercial subjects teacher - vocational institute |
| 7321 | commercial trailer mechanic |
| 7321 | commercial trailer technician |
| 4423 | commercial transport inspector |
| 7321 | commercial transport vehicle mechanic |
| 6411 | commercial traveller - wholesale |
| 1313 | commercial underwriter - insurance |
| 4021 | commercial vehicle driver instructor |
| 4021 | commercial vehicle driving instructor |
| 4423 | commercial vehicle enforcement officer |
| 6523 | commissary agent - airline |
| 6522 | commissary attendant - air transport |
| 6513 | commissary waiter/waitress |
| 0121 | commission brokers manager - investments |
| 5253 | commission steward - horse racing |
| 6541 | commissionaire |
| 6541 | commissionaire - security |
| 6316 | commissionaire supervisor |
| 2154 | commissioned land surveyor |
| 6421 | commissioned salesperson - retail |
| 0012 | commissioner - government services |
| 1227 | commissioner of affidavits |
| 0012 | commissioner of inquiries |
| 0012 | commissioner of inquiries - government services |
| 1227 | commissioner of marriages |
| 1222 | committee clerk |
| 0121 | commodities trading manager |
| 1113 | commodity broker |
| 1113 | commodity trader |
| 0433 | commodore |
| 3237 | communication aide - medical |
| 3237 | communication assistant - medical |
| 1213 | communication clerks supervisor |
| 5241 | communication designer |
| 3237 | communication disorders assistant |
| 3237 | communication disorders instructor |
| 7246 | communication electrician - network craft |
| 7246 | communication electrician apprentice - network craft |
| 6221 | communication equipment sales representative |
| 7245 | communication line technician |
| 1123 | communication officer (except emergency services) |
| 4312 | communication service firefighter |
| 0213 | communication systems design manager |
| 7246 | communication systems technician |
| 7245 | communication technician - construction |
| 1123 | communications adviser |
| 1123 | communications consultant |
| 0124 | communications director |
| 0124 | communications director - sales and marketing |
| 7245 | communications electrician - construction craft |
| 7246 | communications electrician - telecommunications |
| 9523 | communications equipment assembler |
| 9222 | communications equipment assembly foreman/woman - electronics manufacturing |
| 9222 | communications equipment assembly supervisor - electronic equipment manufacturing |
| 2244 | communications equipment repairer - avionics |
| 5212 | communications equipment restoration technician - museum |
| 9222 | communications equipment testing supervisor - electronic equipment manufacturing |
| 9222 | communications equipment testing supervisor - electronics manufacturing |
| 1123 | communications expert |
| 7202 | communications foreman/woman |
| 0124 | communications manager |
| 0124 | communications manager - public relations |
| 0131 | communications manager - telecommunications |
| 1123 | communications officer |
| 1525 | communications officer - emergency services |
| 4161 | communications policy researcher |
| 2111 | communications research scientist |
| 1221 | communications service co-ordinator |
| 1123 | communications specialist |
| 1525 | communications specialist dispatcher |
| 4021 | communications teacher - college level |
| 2241 | communications technologist |
| 3237 | communicative disorders assistant |
| 3237 | communicative disorders instructor |
| 4212 | community and social services worker |
| 2153 | community and urban planner |
| 7247 | community antenna television (CATV) installation technician - telecommunications |
| 7247 | community antenna television (CATV) maintenance technician |

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| 7247 | community antenna television (CATV) service installation technician - telecommunications |
| 7247 | community antenna television (CATV) technician - cable television |
| 7247 | community antenna television (CATV) technician - telecommunications |
| 0423 | community arts co-ordinator |
| 3141 | community audiologist |
| 4155 | community case manager officer - corrections |
| 4212 | community centre co-ordinator |
| 0423 | community centre director |
| 0423 | community centre manager |
| 4212 | community centre worker |
| 0421 | community college dean |
| 4021 | community college instructor |
| 0014 | community college president |
| 0421 | community college registrar |
| 4021 | community college teacher |
| 4212 | community counsellor - social services |
| 3222 | community dental hygienist |
| 4163 | community development consultant |
| 4212 | community development worker |
| 3132 | community dietitian |
| 4163 | community economic development consultant |
| 0412 | community economic development director - government services |
| 4163 | community economic development officer |
| 3012 | community health nurse |
| 3111 | community health physician |
| 3212 | community health technician - medical laboratory |
| 1123 | community information officer |
| 5125 | community interpreter |
| 4212 | community liaison worker |
| 3111 | community medicine physician |
| 3111 | community medicine specialist |
| 4153 | community mental health counsellor |
| 4212 | community mental health worker |
| 5212 | community museum technician |
| 3132 | community nutritionist |
| 3143 | community occupational therapist |
| 4212 | community organization worker |
| 4164 | community organizer |
| 3131 | community pharmacist |
| 2153 | community planner |
| 0411 | community planning director - government services |
| 4021 | community planning teacher - college level |
| 4311 | community police officer |
| 4164 | community policing program consultant |
| 3143 | community practice occupational therapist |
| 3112 | community preventive medicine physician |
| 0423 | community programs director |
| 4151 | community psychologist |
| 4167 | community recreation and leisure consultant |
| 4167 | community recreation and leisure counsellor |
| 4167 | community recreation co-ordinator |
| 2153 | community recreation planner |
| 4167 | community recreational and leisure programs consultant |
| 4167 | community recreational and leisure programs counsellor |
| 0411 | community rehabilitation manager - government services |
| 4212 | community rehabilitation worker |
| 4311 | community relations officer - police |
| 0422 | community school principal |
| 4212 | community service worker |
| 0423 | community services director |
| 4311 | community services officer - police |
| 4212 | community services officer - social services |
| 4164 | community social development officer |
| 3141 | community speech-language pathologist |
| 4212 | community worker |
| 4021 | community-based trainer |
| 9525 | commutator assembler |
| 9525 | commutator assembler - industrial electrical equipment |
| 9524 | compact disc assembler |
| 9535 | compact disc inspector - plastic products manufacturing |
| 9537 | compact disc matrix inspector |
| 9523 | compact disc player assembler |
| 9523 | compact disc player inspector and tester |
| 6421 | compact disc sales clerk |
| 4412 | companion |
| 3114 | companion animal veterinarian |
| 7513 | company chauffeur |
| 3112 | company physician |
| 4021 | company trainer |
| 6623 | comparison shopper |
| 9537 | compass assembler |
| 7612 | compassman/woman - land surveying |
| 6552 | compensation agent |
| 1121 | compensation and benefits co-ordinator |
| 1121 | compensation and classification analyst |
| 1121 | compensation consultant |
| 0112 | compensation manager |
| 1121 | compensation officer |
| 1121 | compensation research analyst |
| 1121 | compensation researcher-analyst |
| 5253 | competitive sports judge |
| 5251 | competitor - chess |
| 5251 | competitor - gambling |
| 1452 | compiler |
| 7246 | complaint service technician - telecommunications |
| 6552 | complaints adjuster |
| 6552 | complaints clerk - customer service |
| 6552 | complaints clerk - telephone system |
| 6552 | complaints specialist - customer service |

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| 2264 | compliance inspector - buildings |
| 9523 | component inserting machine operator |
| 9523 | component inspector - electronic equipment manufacturing |
| 9523 | components assembler - electronic equipment manufacturing |
| 5132 | composer |
| 7303 | composing foreman/woman - printing |
| 1423 | composing machine operator - typesetting |
| 1452 | composing room proofreader |
| 7303 | composing room supervisor - printing |
| 9535 | composite material laminator |
| 7315 | composite repair technician - aircraft |
| 9521 | composite technician - aircraft assembly |
| 9531 | composite technician - boat assembly |
| 9522 | composite technician - motor vehicle manufacturing |
| 7295 | composition floor layer |
| 9421 | composition mixer - chemical processing |
| 7291 | composition roofer |
| 5223 | compositor - animation |
| 5223 | compositor - film |
| 1423 | compositor - typesetting |
| 7303 | compositors foreman/woman - printing |
| 7303 | compositors supervisor - printing |
| 1423 | compositor-typographer |
| 0912 | compost facility manager |
| 9212 | compost facility supervisor |
| 9421 | compounder - chemical processing |
| 9214 | compounding foreman/woman - rubber and plastic manufacturing |
| 9537 | compressed air and gas regulator assembler |
| 7311 | compressed gas plant maintenance mechanic |
| 9613 | compressed gas plant worker |
| 2211 | compressed gases tester |
| 9422 | compression moulder - plastic manufacturing |
| 9214 | compression moulding foreman/woman - rubber and products manufacturing |
| 7316 | compressor fitter |
| 9212 | compressor station foreman/woman |
| 0912 | compressor station manager |
| 9232 | compressor station operator - pipelines |
| 0111 | comptroller |
| 0012 | comptroller general - government services |
| 0012 | comptroller general of Canada |
| 2171 | computer analyst |
| 0213 | computer and related services manager |
| 5241 | computer animator |
| 0213 | computer application development manager |
| 2174 | computer application programmer |
| 2173 | computer applications engineer |
| 0213 | computer applications manager |
| 6221 | computer applications sales engineer |
| 1111 | computer audit specialist |
| 6221 | computer business agent |
| 2241 | computer communications technician |
| 2171 | computer consultant |
| 0213 | computer department co-ordinator |
| 0213 | computer development division head |
| 0413 | computer education director |
| 2147 | computer engineer |
| 2147 | computer engineer (except software) |
| 2242 | computer equipment installer |
| 1422 | computer equipment operator |
| 2242 | computer equipment repairer |
| 6221 | computer equipment sales specialist |
| 2242 | computer equipment technician - household and business equipment |
| 0213 | computer facility manager |
| 2242 | computer field service technician |
| 2174 | computer game developer |
| 5223 | computer graphics design technician |
| 5223 | computer graphics operator |
| 5241 | computer graphics specialist |
| 5223 | computer graphics technician |
| 2147 | computer hardware engineer |
| 2241 | computer hardware technologist |
| 2282 | computer help desk representative - systems |
| 2282 | computer help desk supervisor |
| 2241 | computer inspector-tester |
| 2141 | computer integrated manufacturing (CIM) engineer |
| 0213 | computer legacy systems manager |
| 0213 | computer manager |
| 2281 | computer master console operator |
| 2281 | computer network technician |
| 2281 | computer network technicians' supervisor |
| 0213 | computer networks manager |
| 7231 | computer numerical control (CNC) machinist |
| 2233 | computer numerical control (CNC) Mastercam programmer |
| 9437 | computer numerically controlled (CNC) band saw operator |
| 9417 | computer numerically controlled (CNC) machine set-up operator - metal machining |
| 9417 | computer numerically controlled (CNC) machining centre operator |
| 2233 | computer numerically controlled coordinate measuring machine (CNC/CMM) programmer |
| 2281 | computer operations supervisor |
| 1423 | computer photocompositor |
| 1423 | computer phototypesetter |
| 0621 | computer products dealer - retail |
| 0621 | computer products store manager |
| 2174 | computer programmer |
| 4021 | computer programming instructor - college level |
| 0213 | computer programs manager |
| 0213 | computer projects manager |
| 2242 | computer repair technician |
| 6421 | computer salesperson - retail |
| 4011 | computer science professor - university |

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| 4021 | computer science teacher - college level |
| 5111 | computer search librarian |
| 2242 | computer service technician |
| 6411 | computer services sales representative |
| 2171 | computer simulations analyst |
| 0213 | computer software design manager |
| 2173 | computer software engineer |
| 6221 | computer software sales representative |
| 0213 | computer system operations manager |
| 6221 | computer system sales representative |
| 2171 | computer systems analyst |
| 2171 | computer systems business analyst |
| 2171 | computer systems development co-ordinator |
| 0213 | computer systems development manager |
| 2147 | computer systems engineer |
| 0213 | computer systems integration manager |
| 0213 | computer systems manager |
| 2281 | computer tape librarian |
| 0421 | computer technology school director |
| 4031 | computer technology teacher - secondary school |
| 2173 | computer telecommunications software specialist |
| 2147 | computer telecommunications specialist |
| 1422 | computer terminal operator |
| 4021 | computer trainer |
| 4021 | computer training instructor |
| 4021 | computer training representative |
| 1423 | computer typesetter |
| 2253 | computer-aided design (CAD) specialist - drafting |
| 2253 | computer-aided design (CAD) technologist |
| 2253 | computer-aided drafting (CAD) technician |
| 1423 | computer-aided page maker-up |
| 2253 | computer-assisted design and drafting technologist |
| 2233 | computer-assisted design/computer-assisted manufacturing (CAD/CAM) programmer |
| 4021 | computer-assisted drafting (CAD) instructor |
| 2253 | computer-assisted drafting (CAD) technician |
| 2253 | computer-assisted electromechanical design draftsperson |
| 9472 | computer-assisted letterer-engraver |
| 7231 | computer-assisted machinist |
| 4021 | computer-based trainer |
| 0213 | computerized information systems manager |
| 9437 | computerized panel saw tender |
| 0213 | computerized technical information manager |
| 0013 | computing services company president |
| 7311 | concentrating plant mechanic |
| 9231 | concentrator control room operator |
| 9211 | concentrator foreman/woman - primary metal and mineral products processing |
| 5133 | concert singer |
| 0621 | concession holder |
| 0621 | concession manager |
| 9461 | conche machine tender |
| 1121 | conciliation officer - employee relations |
| 1121 | conciliator |
| 1121 | conciliator - labour |
| 7205 | concrete and cement finishers foreman/woman |
| 7205 | concrete and cement finishing contractor |
| 9411 | concrete batch plant operator - cement manufacturing |
| 9414 | concrete block machine operator |
| 9414 | concrete block maker |
| 7611 | concrete block pourer |
| 7281 | concrete block setter |
| 7611 | concrete breaker |
| 9414 | concrete burial vault maker |
| 2131 | concrete engineer |
| 7282 | concrete finisher |
| 7282 | concrete finisher apprentice |
| 7611 | concrete finisher helper |
| 7205 | concrete finishers foreman/woman |
| 7205 | concrete finishing foreman/woman |
| 9414 | concrete fittings maker |
| 7611 | concrete float pourer |
| 7282 | concrete floor finisher |
| 7204 | concrete form builders foreman/woman - carpentry |
| 7611 | concrete former helper |
| 7271 | concrete forms carpenter |
| 7611 | concrete gun operator |
| 9414 | concrete hydraulic press operator |
| 7282 | concrete mason |
| 9414 | concrete mixer caster |
| 7611 | concrete mixer helper |
| 9414 | concrete mixer operator - concrete manufacturing |
| 7611 | concrete mixer operator - construction |
| 7611 | concrete mixer operator helper |
| 7611 | concrete mixer operator helper - highway construction |
| 9414 | concrete mixer-caster |
| 9414 | concrete moulder |
| 9414 | concrete operator - dry cast |
| 9414 | concrete operator - wet cast |
| 7282 | concrete patcher-finisher |
| 7611 | concrete paver operator helper |
| 7302 | concrete paving foreman/woman |
| 7611 | concrete paving labourer |
| 9414 | concrete pipe machine tender |
| 9414 | concrete plant operator |
| 9414 | concrete pole maker - concrete products manufacturing |
| 9414 | concrete pole moulder - concrete products manufacturing |
| 7282 | concrete polisher |
| 7611 | concrete pourer - construction |
| 7282 | concrete product finisher |
| 9211 | concrete products foreman/woman |
| 9415 | concrete products inspector |

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| 9414 | concrete products machine operator |
| 9414 | concrete products moulder |
| 6411 | concrete products salesperson - wholesale |
| 9415 | concrete products tester |
| 7611 | concrete pump operator |
| 9414 | concrete saw tender |
| 9414 | concrete sawyer |
| 7282 | concrete smoother-finisher |
| 9414 | concrete spin caster |
| 7611 | concrete spreader operator |
| 7521 | concrete spreader operator - heavy equipment |
| 2231 | concrete technician |
| 9414 | concrete vault maker |
| 7611 | concrete waterproofer - construction |
| 7521 | concrete-grooving machine operator |
| 7302 | concrete-laying gang foreman/woman |
| 7302 | concrete-paving labour gang foreman/woman |
| 7521 | concrete-paving machine operator |
| 9414 | concrete-spinning machine operator |
| 9411 | condenser setter - primary metal processing |
| 9523 | condenser winder - electronic equipment manufacturing |
| 9441 | conditioner tender - textile manufacturing |
| 5132 | conductor |
| 7362 | conductor - railway yard |
| 7362 | conductor - road freight |
| 7362 | conductor - switching yard |
| 7244 | conduit installer - electric power systems |
| 9461 | cone and wafer machine tender |
| 9523 | cone assembler - electronic equipment manufacturing |
| 9435 | cone former - paper converting |
| 9461 | cone maker - food and beverage processing |
| 9411 | cone tender |
| 9435 | cone winder - paper converting |
| 9441 | cone winder - textile manufacturing |
| 9617 | confection labourer - food and beverage processing |
| 9461 | confection syrup maker |
| 9461 | confectionery cooker |
| 0621 | confectionery department manager - retail |
| 9213 | confectionery foreman/woman |
| 0621 | confectionery manager |
| 6421 | confectionery sales clerk |
| 1226 | conference and meeting planner |
| 0714 | conference centre manager |
| 1226 | conference co-ordinator |
| 0125 | conference development manager |
| 1122 | conference facilitator |
| 5125 | conference interpreter |
| 1226 | conference organizer |
| 1226 | conference planner |
| 0125 | conference services manager |
| 1226 | conference services officer |
| 9417 | connecting rod borer |
| 9524 | connector assembler - electrical equipment manufacturing |
| 5125 | consecutive interpreter |
| 5212 | conservation and restoration technician |
| 5212 | conservation area interpreter |
| 2224 | conservation officer |
| 2223 | conservation technician - forestry |
| 5212 | conservation technician - museums and art galleries |
| 5112 | conservator - art objects |
| 5112 | conservator - museum |
| 9523 | console assembler - electronic equipment manufacturing |
| 9231 | console operator - cement manufacturing |
| 9461 | console operator - food and beverage processing |
| 4311 | constable |
| 1222 | constituency aid |
| 1222 | constituency assistant |
| 7241 | construction and maintenance electrician |
| 0711 | construction assistant manager |
| 7372 | construction blaster |
| 7234 | construction boilermaker |
| 6322 | construction camp cook |
| 6733 | construction campsite attendant |
| 7271 | construction carpenter |
| 2234 | construction cost consultant |
| 2234 | construction cost estimator |
| 7611 | construction craft labourer |
| 7371 | construction crane operator |
| 7372 | construction driller |
| 7241 | construction electrician |
| 7241 | construction electrician apprentice |
| 7611 | construction electrician helper |
| 7202 | construction electricians and repairers foreman/woman |
| 7202 | construction electricians foreman/woman |
| 7202 | construction electricians supervisor |
| 2131 | construction engineer |
| 2231 | construction engineering technician |
| 7312 | construction equipment mechanic |
| 7612 | construction equipment mechanic helper |
| 7521 | construction equipment operator |
| 7312 | construction equipment repairman/woman |
| 6221 | construction equipment sales representative |
| 2234 | construction estimator |
| 0711 | construction expediter |
| 2264 | construction field inspector |
| 7302 | construction gang foreman/woman |
| 0711 | construction general contractor |
| 0016 | construction general manager |
| 0711 | construction general superintendent |
| 7611 | construction helper |
| 2264 | construction inspector |
| 2264 | construction inspector and tester |
| 2264 | construction inspector supervisor |
| 7201 | construction ironwork contractor |

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| 7611 | construction labourer |
| 7611 | construction labourer and helper |
| 7244 | construction lineman/woman - electric power systems |
| 7244 | construction lineman/woman - electrical power line |
| 9226 | construction machinery assembly foreman/woman |
| 0711 | construction manager |
| 6221 | construction material sales representative |
| 7311 | construction millwright |
| 0711 | construction operations manager |
| 7294 | construction painter |
| 7205 | construction painters foreman/woman |
| 7205 | construction painters supervisor |
| 1452 | construction permits clerk |
| 1523 | construction progress report clerk |
| 0711 | construction project co-ordinator |
| 2131 | construction project engineer |
| 0711 | construction project manager |
| 0711 | construction project superintendent |
| 2231 | construction requirements writer |
| 2264 | construction safety officer |
| 1523 | construction schedule co-ordinator |
| 0711 | construction senior project manager |
| 7233 | construction sheet metal worker |
| 7302 | construction site foreman/woman |
| 0711 | construction site manager |
| 0711 | construction site superintendent |
| 0711 | construction special project manager |
| 2231 | construction specifications writer |
| 0711 | construction superintendent |
| 8221 | construction supervisor - underground mining and quarrying |
| 2231 | construction technician |
| 7245 | construction technician - cable television |
| 2231 | construction technician - civil engineering |
| 7245 | construction technician - telecommunications |
| 2231 | construction technologist |
| 7611 | construction trades helper |
| 7611 | construction worker |
| 8411 | construction worker - mines |
| 0012 | consul |
| 8222 | consultant - gas well drilling |
| 8222 | consultant - oil drilling |
| 3132 | consultant dietitian |
| 3012 | consultant nurse |
| 3132 | consultant nutritionist |
| 3142 | consultant physical therapist |
| 3142 | consultant physiotherapist |
| 4166 | consultant, education policies |
| 6561 | consultant, fashion colours |
| 2161 | consulting actuary |
| 2123 | consulting agrologist |
| 2151 | consulting architect |
| 2131 | consulting civil engineer |
| 2122 | consulting forester |
| 2113 | consulting geologist |
| 2113 | consulting geophysicist |
| 2141 | consulting industrial engineer |
| 2132 | consulting mechanical engineer |
| 2143 | consulting mining engineer |
| 2161 | consulting pension actuary |
| 4164 | consumer advisor |
| 4162 | consumer advisor - economics |
| 2262 | consumer affairs inspector |
| 0122 | consumer credit management trainee |
| 6235 | consumer credit officer |
| 0122 | consumer credit services manager trainee |
| 0423 | consumer information director |
| 6235 | consumer loans officer |
| 2252 | consumer products designer |
| 6411 | consumer sales representative |
| 6552 | contact centre agent - customer service |
| 0125 | contact centre manager |
| 6314 | contact centre supervisor |
| 3231 | contact lens dispenser |
| 3231 | contact lens fitter |
| 3231 | contact lens practitioner |
| 3231 | contact lens technician |
| 9472 | contact printer |
| 2222 | contagious animal disease prevention inspector |
| 3012 | contagious disease transmission prevention nurse |
| 2252 | container designer |
| 0911 | container manufacturing manager |
| 9617 | container washer, machine - food and beverage processing |
| 5112 | contemporary art curator |
| 5112 | contemporary art museum curator |
| 5241 | content director |
| 5241 | content strategist |
| 3413 | continuing care assistant |
| 5227 | continuity person - motion pictures and broadcasting |
| 7521 | continuous bucket excavator operator |
| 9231 | continuous casting machine operator - primary metal processing |
| 9231 | continuous casting operator - primary metal processing |
| 9432 | continuous digester operator - pulp and paper |
| 9411 | continuous drossing operator |
| 9441 | continuous dyeing machine operator - textile manufacturing |
| 9441 | continuous felt dryer operator - textile manufacturing |
| 9536 | continuous galvanizing line operator |
| 9473 | continuous glue machine operator - printing |
| 8231 | continuous mining machine operator |
| 9423 | continuous mixer operator - rubber products manufacturing |

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| 9441 | continuous press tender - textile manufacturing |
| 9232 | continuous process chief operator |
| 9432 | continuous process cook - pulp and paper |
| 9212 | continuous process foreman/woman - chemical processing |
| 5232 | contortionist |
| 9437 | contour sander operator - woodworking |
| 9414 | contour-grinding machine operator - concrete, clay and stone products |
| 1225 | contract claims examiner |
| 1452 | contract clerk |
| 1434 | contract clerk - financial sector |
| 4211 | contract clerk - law |
| 1211 | contract clerks supervisor |
| 4112 | contract counsel |
| 0113 | contract director |
| 1225 | contract management officer |
| 0113 | contract manager |
| 1225 | contract negotiator |
| 8252 | contractor - agricultural service |
| 7205 | contractor, drywalling |
| 7204 | contractor-carpenter |
| 7202 | contractor-electrician |
| 7205 | contractor-floor coverer |
| 7205 | contractor-glazier |
| 7205 | contractor-plasterer |
| 7205 | contractor-roofer (except metal roofs) |
| 2234 | contractors estimator |
| 1225 | contracts officer |
| 1241 | contracts secretary |
| 5122 | contributing editor |
| 9521 | control assembler, aircraft |
| 2112 | control chemist |
| 1434 | control clerk - financial sector |
| 1431 | control clerk - hotel and restaurant |
| 9525 | control panel assembler |
| 9525 | control panel assembler - industrial electrical equipment |
| 9232 | control panel operator - chemical processing |
| 9525 | control panel technician - industrial electrical equipment |
| 2241 | control panels tester |
| 5122 | control room editor - broadcasting |
| 9231 | control room furnace operator - smelter |
| 9241 | control room operator - electrical power systems |
| 9461 | control room operator - food and beverage processing |
| 8412 | control room operator - offshore drilling |
| 9231 | control room operator - primary metal processing |
| 9235 | control room operator - pulp and paper |
| 9241 | control room operator trainee - electrical power systems |
| 5224 | control room technician - broadcasting |
| 2133 | control systems engineer |
| 2241 | control systems tester |
| 7531 | control tower operator - railway |
| 0111 | controller - financial services |
| 0013 | controller - financial, communications and other business services |
| 9232 | controller - oil |
| 9227 | controlling and recording instruments assembly foreman/woman |
| 6611 | convenience store cashier |
| 6421 | convenience store clerk |
| 0621 | convenience store manager |
| 1226 | convention and special events planner |
| 0714 | convention centre manager |
| 1226 | convention co-ordinator |
| 1226 | convention planner |
| 1226 | convention planning services officer |
| 9241 | conversion substation operator - electrical power systems |
| 9211 | converter foreman/woman - primary metal and mineral products processing |
| 9522 | convertible top assembler - motor vehicle manufacturing |
| 4211 | conveyance clerk |
| 7452 | conveyor belt attendant |
| 9214 | conveyor belt foreman/woman - rubber manufacturing |
| 7452 | conveyor belt operator (except underground mines) |
| 7452 | conveyor belt patroller-controller |
| 9423 | conveyor belt splicer - rubber products manufacturing |
| 9614 | conveyor cleaner - pulp and paper |
| 7452 | conveyor console operator |
| 9611 | conveyor labourer - primary metal and mineral products processing |
| 9523 | conveyor line worker - electronic equipment manufacturing |
| 7452 | conveyor operator - material handling (except underground mines) |
| 9611 | conveyor operator - primary metal and mineral products processing |
| 8411 | conveyor operator - underground mining |
| 9461 | conveyor oven operator - food and beverage processing |
| 7311 | conveyor repairer |
| 7452 | conveyor tender - material handling (except underground mines) |
| 9461 | conveyor tender - tobacco processing |
| 9619 | conveyor washer tender |
| 9537 | conveyor wire belt builder |
| 8411 | conveyorman/woman - underground mining |
| 4422 | convict guard |
| 6541 | convoy guard |
| 6322 | cook |
| 9432 | cook - pulp and paper |
| 9461 | cook tank operator - food and beverage processing |

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| **9421** | cooker - chemical processing |
| **9461** | cooker, offal - food and beverage processing |
| **9465** | cookie and cracker tester |
| **0651** | cooking school manager |
| **9235** | cooking systems operator - pulp and paper |
| **4032** | cooking teacher - elementary school |
| **4031** | cooking teacher - secondary school |
| **9432** | cook's first helper - pulp and paper |
| **6711** | cook's helper |
| **9618** | cooler operator - fish processing |
| **9535** | cooler shell assembler - plastic products manufacturing |
| **9461** | cooler tender - tobacco processing |
| **9411** | cooling bed operator - steel mill |
| **9461** | cooling machine tender - food and beverage processing |
| **9241** | cooling system operator |
| **9524** | cooling unit assembler - electrical equipment manufacturing |
| **4033** | co-op officer |
| **4033** | co-op officer - schools |
| **4033** | co-op placement officer - school |
| **4033** | co-op program co-ordinator - school |
| **9533** | cooper |
| **9227** | cooper foreman/woman |
| **9437** | cooper header - woodworking |
| **9437** | cooper header operator - wood |
| **9437** | cooper operator - woodworking |
| **9437** | cooperage heading machine operator - woodworking |
| **9437** | cooperage heading sawyer |
| **9619** | cooperage labourer |
| **9437** | cooperage setter-up - woodworking |
| **9437** | cooperage set-up man/woman - woodworking |
| **4031** | cooperative education teacher |
| **4031** | cooperative learning teacher |
| **9437** | cooper's head-saw operator - woodworking |
| **1227** | co-ordinator of court services |
| **3011** | co-ordinator of nursing services |
| **4152** | co-ordinator of social work |
| **0131** | co-ordinator of technical services - telecommunications |
| **9412** | cope and drag pinlift operator - foundry |
| **2271** | co-pilot |
| **2271** | co-pilot - air transport |
| **9411** | copper billet piercer |
| **9411** | copper billet piercing mill operator |
| **9412** | copper caster - foundry |
| **9536** | copper coater - metal plating |
| **9611** | copper dust-collector worker |
| **9472** | copper engraver - camera and platemaking |
| **9411** | copper flotation operator |
| **9231** | copper melter |
| **9411** | copper ore slime treater |
| **9472** | copper photoengraver |
| **9536** | copper plater |
| **9231** | copper refinery operator |
| **9411** | copper-briquetting machine operator |
| **5244** | copperplate engraver - artisan |
| **9472** | copperplate photoengraver |
| **7233** | coppersmith |
| **7201** | coppersmith foreman/woman |
| **9474** | copy camera operator - photographic processing |
| **5122** | copy chief |
| **1423** | copy cutter |
| **5122** | copy editor |
| **1452** | copy holder |
| **9437** | copy lathe tender |
| **1423** | copy marker - typesetting |
| **5122** | copy preparer |
| **1513** | copy runner - courier service |
| **1423** | copy stylist - typesetting |
| **1423** | copy typist - typesetting |
| **9471** | copy, staple and glue machine operator |
| **5132** | copyist - music |
| **4211** | copyright agent |
| **0512** | copyright and royalties manager |
| **1213** | copyright clearance supervisor |
| **1452** | copyright clerk |
| **0512** | copyright manager - publishing |
| **5121** | copywriter |
| **8421** | cordwood cutter |
| **9525** | core assembler - industrial electrical equipment |
| **8614** | core cutter |
| **9435** | core cutter - paper converting |
| **9433** | core cutter and reamer |
| **7372** | core drill operator - construction, surface mining and quarrying |
| **8231** | core driller |
| **8231** | core driller - underground mining |
| **9412** | core extruder - foundry |
| **9415** | core inspector - foundry |
| **9434** | core layer - wood processing |
| **9412** | core machine operator - foundry |
| **9435** | core maker - paper converting |
| **9619** | core mounter |
| **9412** | core oven operator - foundry |
| **9412** | core oven tender - foundry |
| **9619** | core pipe extractor |
| **9215** | core room foreman/woman - pulp and paper |
| **9611** | core room labourer - foundry |
| **9412** | core room set-up man/woman - foundry |
| **9412** | core setter - foundry |
| **9611** | core shop labourer - foundry |
| **8614** | core splitter |
| **9415** | core tester - foundry |
| **9435** | core winder - paper converting |
| **9412** | core-blower machine operator - foundry |
| **8231** | core-drill operator |
| **8231** | core-drill operator - underground mining |

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|---|---|
| **9434** | core-laying machine tender - wood processing |
| **9412** | coremaker - foundry |
| **9211** | coremaking foreman/woman - foundry |
| **9211** | coremaking foreman/woman - mineral processing |
| **9215** | coremaking foreman/woman - paper converting |
| **9412** | coremaking machine operator - foundry |
| **9412** | core-sand-mixer - foundry |
| **9435** | core-winding machine operator - paper converting |
| **8232** | coring operator - oil field services |
| **7293** | cork insulation installer |
| **9461** | cork tipper, cigarettes |
| **9537** | corks and bottle caps inspector |
| **9461** | corn chips cooker |
| **9461** | corn cooker - food and beverage processing |
| **9461** | corn dough machine tender |
| **9461** | corn flakes roller - food and beverage processing |
| **9461** | corn germ preparer - food and beverage processing |
| **9461** | corn products presser - food and beverage processing |
| **9461** | corn products pressman/woman - food and beverage processing |
| **9461** | corn products starch presser |
| **9461** | corn products sugar crystallizer operator |
| **9461** | corn sugar filter operator |
| **9461** | corn sugar refinery operator |
| **9461** | corn syrup cooler and decolourizer |
| **9461** | corn syrup maker |
| **9617** | corn syrup processing labourer |
| **9537** | corncob pipe assembler |
| **6611** | corner store cashier |
| **6421** | corner store clerk |
| **5133** | cornetist |
| **3012** | coronary intensive care nurse |
| **3012** | coronary unit nurse |
| **4165** | coroner |
| **4313** | corporal |
| **0122** | corporate accounts manager - banking, credit and investment |
| **0124** | corporate affairs manager |
| **5113** | corporate archivist |
| **0122** | corporate banking centre manager |
| **0013** | corporate banking vice-president |
| **0111** | corporate budgeting and analysis manager |
| **6321** | corporate chef |
| **0013** | corporate controller - financial, communications and other business services |
| **0016** | corporate controller - goods production, utilities, transportation and construction |
| **0014** | corporate controller - health, education, social and community services and membership organizations |
| **0013** | corporate controller - mortgage brokerage firm |
| **0015** | corporate controller - trade, broadcasting and other services |
| **4112** | corporate counsel |
| **1122** | corporate development planning adviser |
| **1242** | corporate finance legal assistant |
| **0111** | corporate financing manager |
| **6561** | corporate image consultant |
| **4217** | corporate intercessor |
| **1112** | corporate investment adviser |
| **1242** | corporate law administrative assistant |
| **4211** | corporate law and litigation clerk |
| **4211** | corporate law clerk |
| **1242** | corporate law legal assistant |
| **1242** | corporate law secretary |
| **4112** | corporate notary (Quebec) |
| **4211** | corporate paralegal |
| **2271** | corporate pilot |
| **1122** | corporate planner |
| **0413** | corporate policy manager - education |
| **1242** | corporate records legal assistant |
| **0111** | corporate risk department manager |
| **0601** | corporate sales manager |
| **1222** | corporate secretary |
| **4211** | corporate securities law clerk |
| **6541** | corporate security officer |
| **0122** | corporate services manager - banking, credit and investment |
| **0731** | corporate traffic manager - transportation |
| **0731** | corporate transportation manager |
| **0122** | corporate trust services manager |
| **2175** | corporate Webmaster |
| **4112** | corporation lawyer |
| **4211** | corporation paralegal |
| **8252** | corral boss |
| **4164** | correction rehabilitation program co-ordinator |
| **4155** | correctional centre caseworker |
| **4422** | correctional facility guard |
| **0423** | correctional institution director |
| **4422** | correctional institution guard |
| **4422** | correctional institution head matron |
| **4422** | correctional officer |
| **4422** | correctional officers supervisor |
| **0423** | correctional rehabilitation society director |
| **4422** | correctional service officer |
| **4164** | correctional service policy consultant |
| **0423** | correctional services director |
| **4422** | correctional services unit supervisor |
| **0423** | correctional treatment and training director |
| **4422** | corrections officer |
| **0124** | correspondence and public inquiries manager |
| **1452** | correspondence clerk |
| **1213** | correspondence clerks supervisor |
| **1411** | correspondence filing clerk |
| **1452** | correspondence review clerk |

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| **4021** | correspondence school instructor |
| **4021** | correspondence school tutor |
| **4021** | correspondence teacher - college level |
| **4032** | correspondence teacher - elementary school |
| **4031** | correspondence teacher - secondary school |
| **5123** | correspondent |
| **2142** | corrosion engineer |
| **9536** | corrosion resistant metal sprayer |
| **2231** | corrosion technician |
| **2231** | corrosion technologist |
| **9414** | corrugated asbestos board former |
| **9435** | corrugated box cutter - paper converting |
| **9437** | corrugated fastener driver - woodworking |
| **9435** | corrugating machine operator - paper converting |
| **9435** | corrugating machine operator-cutter - paper converting |
| **9416** | corrugation machine operator, sheet metal |
| **9435** | corrugator operator - paper converting |
| **9435** | corrugator operator-cutter - paper converting |
| **9416** | corrugator sheet metal operator |
| **9614** | corrugator-operator helper |
| **3111** | cosmetic surgeon |
| **6562** | cosmetician |
| **9421** | cosmetics and perfume maker |
| **6623** | cosmetics demonstrator - retail |
| **9212** | cosmetics processing foreman/woman |
| **6623** | cosmetics salesperson - home sales |
| **6421** | cosmetics salesperson - retail |
| **6562** | cosmetologist |
| **2111** | cosmic ray physicist |
| **2111** | cosmologist |
| **2115** | cosmonaut |
| **1111** | cost accountant |
| **1431** | cost accounting clerk |
| **1111** | cost accounting supervisor |
| **0512** | cost and royalties manager - publishing |
| **1431** | cost clerk |
| **2141** | cost engineer |
| **2234** | cost estimator - construction |
| **1112** | cost financial analyst |
| **1212** | cost supervisor |
| **1431** | costing clerk |
| **5243** | costume designer |
| **5243** | costume designer - exhibits and theatre |
| **5226** | costume maker |
| **5226** | costume supervisor |
| **5226** | costumer |
| **5226** | costumer - motion pictures, broadcasting and performing arts |
| **5226** | costumes co-ordinator |
| **5226** | costumier |
| **9461** | cottage cheese maker |
| **9441** | cotton ball machine tender |
| **9619** | cotton roll machine tender |
| **9611** | Cottrell precipitator helper - primary metal processing |
| **9411** | Cottrell tender |
| **0012** | council secretary - government services |
| **0011** | councillor |
| **4112** | counsel |
| **4033** | counselling intern |
| **4153** | counselling program supervisor |
| **4151** | counselling psychologist |
| **0423** | counselling services director |
| **0423** | counselling services manager |
| **4033** | counsellor for Aboriginal students |
| **4153** | counsellor for persons who are intellectually impaired |
| **4112** | counsellor-at-law |
| **4112** | counsellor-lawyer |
| **6533** | count room attendant - casino |
| **9537** | counter and upper tacker - footwear manufacturing |
| **6711** | counter attendant - food service |
| **1511** | counter clerk - mail and postal services |
| **6421** | counter clerk - retail |
| **6524** | counter clerk (except airline) |
| **6421** | counter clerk, meats |
| **6552** | counter enquiries clerk |
| **6421** | counter representative, car rental |
| **6524** | counter sales agent - railway |
| **6524** | counter sales agent (except airline) |
| **6524** | counter service agent - railway |
| **6524** | counter service agent (except airline) |
| **6523** | counter services agent - airline |
| **4311** | counterfeit and forgery section detective |
| **6711** | counterperson - food services |
| **9417** | countersinker - metal machining |
| **7441** | countertop installers |
| **6533** | counting attendant - casino |
| **8255** | country club grounds supervisor |
| **6221** | country grain elevator agent |
| **0714** | country grain elevator facility manager |
| **6221** | country grain elevator manager |
| **6221** | country grain elevator operator |
| **0632** | country inn operator |
| **2154** | country surveyor |
| **4112** | county attorney |
| **0012** | county clerk |
| **1416** | county court clerk |
| **4111** | county court judge |
| **1227** | county court registrar |
| **2131** | county engineer |
| **4111** | county judge |
| **7531** | coupler - railway yard |
| **4153** | couples therapist |
| **1513** | courier |
| **7514** | courier driver |
| **1513** | courier service delivery person |
| **7514** | courier service driver |
| **0132** | courier service manager |
| **1513** | courier service parcels deliverer |
| **1214** | courier service supervisor |

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| **6411** | courier services sales representative |
| **7514** | courier van driver |
| **1411** | course co-ordinator |
| **1227** | court administrator |
| **4211** | court and tribunal agent |
| **4421** | court bailiff |
| **1416** | court clerk |
| **1227** | court clerk supervisor |
| **1416** | court clerk-crier |
| **1227** | court deputy administrator |
| **4421** | court enforcement officer |
| **5125** | court interpreter |
| **0433** | court martial judge |
| **1251** | court monitor |
| **1227** | court of appeal registrar |
| **4111** | Court of Queen's Bench justice |
| **1227** | court officer |
| **1251** | court recorder |
| **1227** | court registrar |
| **1251** | court reporter |
| **1213** | court reporters supervisor |
| **4021** | court reporting instructor |
| **1227** | court services manager |
| **1251** | court stenographer |
| **1227** | court supervisor |
| **6552** | courtesy desk clerk |
| **1416** | courtroom clerk |
| **1227** | courtroom officer |
| **5243** | couturier - haute couture |
| **5241** | cover designer |
| **5241** | cover page illustrator |
| **1228** | coverage and interpretation officer - taxation |
| **9537** | covered button maker |
| **9619** | coverer, luggage |
| **9423** | coverer, rubber V-belts |
| **9473** | covering machine operator - printing |
| **9441** | covering-machine tender |
| **8431** | cowboy/cowgirl |
| **0821** | cow-calf operator |
| **8431** | cowhand |
| **8431** | cowpuncher |
| **5251** | coxswain |
| **1411** | CPIC operator |
| **3219** | CPO (certified prosthetist and orthotist) |
| **1314** | CRA (Canadian residential appraiser) |
| **9463** | crab butcher - fish and seafood processing |
| **8262** | crab fisherman/woman |
| **9463** | crab steamer - fish and seafood processing |
| **9441** | crabber - textile manufacturing |
| **9441** | crabbing machine tender |
| **9441** | crabbing machine tender - textile manufacturing |
| **9461** | cracker and cookie machine operator |
| **9423** | cracker operator - rubber products manufacturing |
| **9232** | cracking plant operator |
| **5244** | craft instructor (except education) |
| **0651** | craft school manager |
| **5244** | craft weaver |
| **0014** | crafts guild executive director |
| **4032** | crafts teacher - elementary school |
| **5244** | craftsman/woman |
| **5244** | craftsperson |
| **8241** | crane and claw operator - logging |
| **7535** | crane and dragline oiler and greaser |
| **7371** | crane and hoisting equipment operator |
| **7611** | crane chaser |
| **7302** | crane crew foreman/woman |
| **7316** | crane fitter |
| **7535** | crane greaser |
| **7371** | crane hoist operator |
| **7611** | crane hooker |
| **2262** | crane inspector |
| **9411** | crane ladle pourer |
| **7535** | crane oiler |
| **7371** | crane operator |
| **7371** | crane operator apprentice |
| **7312** | crane repairer |
| **7312** | crane service technician |
| **9522** | crankshaft assembler - motor vehicle manufacturing |
| **4312** | crash firefighter |
| **9619** | crate bander |
| **9619** | crate liner |
| **9533** | crate maker, wood |
| **9619** | crate marker |
| **9619** | crate packer |
| **9619** | crater - manufacturing |
| **7371** | crawler crane operator |
| **7612** | crawler track repairer helper |
| **7535** | crawler track servicer |
| **7521** | crawler tractor operator |
| **9619** | crayon cutter |
| **9537** | crayon making machine tender |
| **9619** | crayon moulder |
| **9461** | cream cheese maker |
| **9465** | cream grader |
| **2222** | cream inspector |
| **9617** | cream sampler - food and beverage processing |
| **9537** | creaser - garment and fabric |
| **9435** | creaser - paper converting |
| **1114** | credit adjudicator |
| **1114** | credit agency inspector |
| **6235** | credit analyst |
| **0122** | credit and accounts manager |
| **1435** | credit and collection clerk |
| **0122** | credit and collection department manager |
| **0122** | credit and collection manager |
| **1212** | credit and collection supervisor |
| **1434** | credit application clerk - financial sector |
| **0122** | credit approval and market development manager |
| **0122** | credit area co-ordinator |

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| **1434** | credit assessment clerk |
| **1434** | credit authorization clerk |
| **6411** | credit bureau sales representative |
| **1411** | credit card authorization clerk |
| **0122** | credit card centre manager |
| **0122** | credit card company operations manager |
| **9473** | credit card die-cutter operator - printing |
| **1434** | credit clerk |
| **1212** | credit clerks supervisor |
| **6235** | credit investigation officer |
| **6235** | credit investigator |
| **0122** | credit manager |
| **6235** | credit officer |
| **1434** | credit register clerk |
| **1212** | credit service group leader |
| **1212** | credit supervisor |
| **0013** | credit union executive director |
| **0013** | credit union general manager |
| **0122** | credit union manager |
| **6551** | credit union teller |
| **1114** | credit unions examiner |
| **9616** | creeler - textile processing |
| **6742** | cremator |
| **6742** | crematorium attendant |
| **0651** | crematorium manager |
| **9435** | creping machine operator - paper converting |
| **9619** | creping machine operator helper |
| **5243** | crest designer |
| **9536** | crester |
| **7301** | crew chief - aircraft maintenance |
| **1526** | crew dispatcher |
| **2223** | crew leader - forest fire suppression |
| **1526** | crew scheduler - aeronautics |
| **1526** | crew scheduler - railway transport |
| **1526** | crew scheduler - transportation |
| **1215** | crew schedulers supervisor |
| **1215** | crew schedules supervisor |
| **7452** | cribber - grain elevator |
| **4311** | crime prevention constable |
| **2211** | crime scene examiner |
| **4311** | crime scene technician - police |
| **1416** | criminal court clerk |
| **4211** | criminal law clerk |
| **4211** | criminal law paralegal |
| **4112** | criminal lawyer |
| **1411** | criminal records clerk |
| **4169** | criminologist |
| **4011** | criminology professor - university |
| **9441** | crimp setter |
| **9441** | crimper |
| **9433** | crimping head operator - papermaking |
| **9418** | crimping machine feeder - wire products manufacturing |
| **9527** | crimping machine tender - electrical equipment manufacturing |
| **9537** | crimping machine tender - leather products manufacturing |
| **9441** | crimping machine tender - textile manufacturing |
| **4153** | crisis counsellor |
| **4212** | crisis intervention worker |
| **5123** | critic |
| **3111** | critical care medicine physician |
| **3111** | critical care medicine specialist |
| **3012** | critical care nurse |
| **3011** | critical care nursing supervisor |
| **3234** | critical care paramedic |
| **9442** | crochet machine operator |
| **9442** | crocheting machine operator |
| **2222** | crop certification inspector |
| **2271** | crop duster |
| **8252** | crop dusting contractor |
| **8252** | crop dusting service contractor |
| **8611** | crop farm labourer - harvesting |
| **0821** | crop farmer |
| **8252** | crop harvesting contractor |
| **8252** | crop harvesting service contractor |
| **2221** | crop production technician |
| **2121** | crop scientist |
| **2123** | crop specialist |
| **9441** | cropping machine tender - textile manufacturing |
| **2121** | crop-research scientist |
| **8431** | cropsprayer machine operator |
| **1215** | cross dock supervisor |
| **9423** | cross head operator - rubber products manufacturing |
| **9437** | crosscut saw operator - woodworking |
| **7622** | crossing attendant - railway |
| **7622** | crossing gateman/woman - railway transport |
| **6541** | crossing guard |
| **5121** | crossword puzzle maker |
| **6533** | croupier |
| **6533** | croupier - casino |
| **3223** | crown and bridge dental technician |
| **1221** | Crown assets distribution officer |
| **4112** | Crown Attorney |
| **4112** | Crown corporation counsel |
| **4112** | Crown counsel |
| **2122** | Crown lands forester |
| **4112** | Crown prosecutor |
| **9437** | croze machine operator - woodworking |
| **9231** | crucible furnace operator |
| **9411** | crucible pourer |
| **6721** | cruise line passenger attendant |
| **0513** | cruise ship director |
| **0731** | cruise ship line manager |
| **2223** | cruiser |
| **2223** | cruising technician - forestry |
| **9411** | crusher and blender operator |
| **9231** | crusher control room operator |
| **9414** | crusher operator - stone products |
| **9461** | crusher operator - tobacco processing |
| **8411** | crusher operator - underground mining |

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|---|---|
| **9411** | crusher setter |
| **9421** | crusher tender - chemical processing |
| **8411** | crusherman/woman - underground mining |
| **9211** | crushing and grinding operations foreman/woman - primary metal and mineral products processing |
| **9211** | crushing and grinding supervisor - primary metal and mineral products |
| **9212** | crushing and grinding worker foreman/woman - chemicals and related materials |
| **9411** | crushing equipment operator |
| **9461** | crushing machine tender - food and beverage processing |
| **9611** | crushing operations helper - mineral products processing |
| **9421** | crutcher operator - chemical processing |
| **9613** | crutcher operator helper |
| **2132** | cryogenics engineer |
| **2111** | cryogenics physicist |
| **9411** | cryolite recovery equipment operator |
| **2232** | cryonics engineering technologist |
| **2161** | cryptanalyst |
| **2161** | cryptoanalyst |
| **2161** | cryptographer |
| **6564** | crystal ball reader |
| **9523** | crystal calibrator - electronic equipment manufacturing |
| **9523** | crystal final tester |
| **9523** | crystal final tester - electronic equipment manufacturing |
| **9523** | crystal finisher - electronic equipment manufacturing |
| **9523** | crystal frequency measurer - electronic equipment manufacturing |
| **9523** | crystal grower |
| **9523** | crystal inspector - electronic equipment manufacturing |
| **9523** | crystal lapper |
| **2111** | crystal physicist |
| **9222** | crystal processing foreman/woman - electronics manufacturing |
| **9523** | crystal unit assembler |
| **9523** | crystal-dicing saw operator |
| **9421** | crystallizer tender - chemical processing |
| **9461** | crystallizer tender - food and beverage processing |
| **6522** | CSD (customer service director) - water transportation |
| **4311** | CSIS (Canadian Security Intelligence Service) investigator |
| **2275** | CTC (centralized traffic control) operator - railway traffic |
| **9432** | CTMP (chemi-thermomechanical pulp) machine assistant operator |
| **9432** | CTMP (chemi-thermomechanical pulp) operator |
| **9461** | cube sugar machine tender - food and beverage processing |
| **8611** | cucumber picker |
| **9445** | cuff-cutting machine tender |
| **5123** | culinary journalist |
| **8431** | cultivator operator |
| **5254** | cultural activities leader |
| **4169** | cultural anthropologist |
| **0014** | cultural association president |
| **4169** | cultural geographer |
| **5125** | cultural interpreter |
| **5125** | cultural or international adaptation specialist |
| **9611** | cupola charger - primary metal and mineral processing |
| **9611** | cupola furnace helper |
| **9412** | cupola furnace operator - foundry |
| **9231** | cupola furnace operator - primary metal processing |
| **9414** | cupola operator - concrete, clay and stone products |
| **7611** | cupola spray reliner |
| **9611** | cupola tapper |
| **4154** | curate |
| **5112** | curator |
| **0511** | curator-director - museum |
| **5212** | curatorial assistant |
| **9423** | cure operator - rubber products manufacturing |
| **9423** | cured tire repairer |
| **9423** | curer, rubber V-belts |
| **9461** | curing bin tender - food and beverage processing |
| **9214** | curing foreman/woman - rubber manufacturing |
| **9423** | curing machine operator - rubber products manufacturing |
| **9423** | curing man/woman - rubber products manufacturing |
| **9423** | curing press set-up operator - rubber products manufacturing |
| **9423** | curing press tender - rubber products manufacturing |
| **9213** | curing room foreman/woman - tobacco processing |
| **9214** | curing supervisor - rubber products manufacturing |
| **5251** | curler |
| **5253** | curling judge |
| **6611** | currency exchange cashier |
| **1431** | currency sorter |
| **6551** | current account representative - financial services |
| **6314** | current accounts supervisor |
| **0731** | current schedule planning manager - airline |
| **9525** | current-transformer assembler |
| **9525** | current-transformer coil winder |
| **4166** | curriculum consultant |

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|---|---|
| 4166 | curriculum developer |
| 4166 | curriculum planner |
| 6741 | curtain and drapery presser - laundry and dry cleaning |
| 7441 | curtain installer |
| 9537 | curtain rod assembler |
| 7292 | curtain wall glazier |
| 7236 | curtain wall installation ironworker |
| 9447 | cushion and cover inspector |
| 9447 | cushion and furniture-coverings manufacturing inspector |
| 9619 | cushion cementer - shoe manufacturing |
| 9619 | cushion filler - furniture assembly |
| 9619 | cushion stuffer - furniture assembly |
| 6733 | custodian |
| 6315 | custodian supervisor - cleaning services |
| 6344 | custom bracelet maker |
| 6344 | custom brooch maker |
| 8252 | custom combine contractor |
| 8252 | custom combine operator |
| 9437 | custom cue maker and repairer |
| 9437 | custom cue maker and repairman/woman |
| 6421 | custom drapery salesperson - retail |
| 9525 | custom electrical panel assembler |
| 9461 | custom feed miller - food and beverage processing |
| 9617 | custom feed miller helper |
| 9461 | custom feed preparer - food and beverage processing |
| 7272 | custom frame and mirror assembler |
| 6342 | custom fur joiner |
| 5244 | custom furniture caner |
| 6342 | custom furrier |
| 9537 | custom golf club maker |
| 8431 | custom harvest crewperson |
| 8252 | custom harvester |
| 6344 | custom jewellery mounter |
| 6344 | custom locket maker |
| 9412 | custom moulder - foundry |
| 7272 | custom piano case maker |
| 9417 | custom screw machine operator |
| 7233 | custom sheet metal fabricator |
| 6343 | custom shoemaker |
| 6342 | custom tailor |
| 0621 | custom tailoring shop manager |
| 6345 | custom upholsterer |
| 7272 | custom wood furniture maker |
| 7272 | custom wooden desk maker |
| 6314 | customer accounts supervisor |
| 6552 | customer information service clerk - insurance |
| 6552 | customer information service representative - retail |
| 6552 | customer relations clerk |
| 6313 | customer relations supervisor - casino |
| 6523 | customer sales agent - airline |
| 6524 | customer sales and service agent (except airline) |
| 6552 | customer satisfaction representative |
| 6552 | customer service adviser |
| 6552 | customer service agent |
| 6523 | customer service agent - airline |
| 6524 | customer service agent - bus line |
| 6551 | customer service agent - financial institution |
| 6552 | customer service assistant |
| 6611 | customer service cashier |
| 6552 | customer service clerk |
| 6314 | customer service clerks supervisor |
| 6522 | customer service director - water transportation |
| 6522 | customer service director (CSD) - water transportation |
| 0621 | customer service manager - automobiles |
| 0621 | customer service manager - retail |
| 0621 | customer service managing supervisor |
| 6552 | customer service monitor - telephone system |
| 6552 | customer service operator - telephone system |
| 6523 | customer service representative - airline |
| 6524 | customer service representative - bus line |
| 6552 | customer service representative - call centre |
| 6551 | customer service representative - financial services |
| 6552 | customer service representative - insurance |
| 6314 | customer service representative supervisor |
| 6314 | customer service representatives supervisor - financial services |
| 6421 | customer service sales clerk |
| 7205 | customer service supervisor - housing construction |
| 6211 | customer service supervisor - retail |
| 6221 | customer support representative - wholesale |
| 1452 | customs and excise clerk |
| 1228 | customs and excise examiner |
| 1228 | customs appraiser |
| 1228 | customs baggage inspector |
| 1315 | customs broker |
| 1212 | customs brokerage clerks supervisor |
| 1315 | customs clearance agent |
| 1452 | customs clerk |
| 1213 | customs clerks supervisor |
| 1228 | customs collector |
| 1315 | customs consultant |
| 1228 | customs examiner |
| 1315 | customs house broker |
| 1315 | customs information broker |
| 1228 | customs inspection supervisor |
| 1228 | customs inspector |
| 1228 | customs inspectors supervisor |
| 1228 | customs investigator |
| 0125 | customs manager - business services |
| 0412 | customs manager - government services |
| 1228 | customs officer |

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| **1315** | customs rater |
| **9417** | cutlery and tool etcher |
| **9537** | cutlery assembly inspector |
| **9537** | cutlery maker |
| **9537** | cutlery maker operator |
| **9227** | cutlery manufacturing foreman/woman |
| **9431** | cut-off saw operator - sawmill |
| **9437** | cut-off saw operator - woodworking |
| **9619** | cut-out and marking machine tender - shoe manufacturing |
| **9445** | cutter - leather products manufacturing |
| **8421** | cutter - logging |
| **9462** | cutter - meat packing plant |
| **9418** | cutter and former, bullets - metal products manufacturing |
| **9433** | cutter and reamer, cores - pulp and paper |
| **9614** | cutter helper - pulp and paper |
| **9414** | cutter operator - concrete, clay and stone products |
| **9537** | cutter operator - other products manufacturing |
| **9473** | cutter operator - printing |
| **9217** | cutter supervisor - fabric, fur and leather products manufacturing |
| **9431** | cutter, shingles - sawmill |
| **9435** | cutting and creasing press operator - paper converting |
| **9441** | cutting and printing machine set-up operator - textile manufacturing |
| **9217** | cutting department foreman/woman - fabric, fur and leather products manufacturing |
| **9537** | cutting machine |
| **7311** | cutting machine fixer - textile manufacturing |
| **9445** | cutting machine operator - clothing manufacturing |
| **9473** | cutting machine operator - printing |
| **8231** | cutting machine operator - underground mining |
| **9473** | cutting machine operator, books |
| **9537** | cutting machine tender - textile products manufacturing |
| **9217** | cutting room foreman/woman - fabric, fur and leather products manufacturing |
| **0631** | cybercafé manager |
| **5131** | cyber-choreographer |
| **5241** | cybergraphic designer |
| **5123** | cyberjournalist |
| **5123** | cyberreporter |
| **5111** | cybrarian |
| **5252** | cycling coach |
| **5251** | cyclist |
| **9417** | cylinder grinder - metal machining |
| **9526** | cylinder head assembler |
| **9417** | cylinder honer - metal machining |
| **9235** | cylinder machine operator - pulp and paper |
| **9536** | cylinder painter - industrial |
| **9472** | cylinder painter - printing |
| **9536** | cylinder plater-grinder - metal processing |
| **9472** | cylinder preparer - printing |
| **7381** | cylinder press operator - printing |
| **7381** | cylinder press set-up operator |
| **7381** | cylinder pressman/woman - printing |
| **7381** | cylinder printing press set-up operator |
| **9418** | cylinder roll fabricator |
| **9437** | cylinder saw tender - woodworking |
| **9472** | cylinder-impresser operator |
| **9437** | cylinder-sander feeder - woodworking |
| **2121** | cytochemist |
| **2121** | cytogeneticist |
| **3211** | cytogenetics technologist - medical laboratory |
| **2121** | cytologist |
| **2121** | cytologist-microbiologist |
| **3212** | cytology technician |
| **3211** | cytology technologist |
| **3211** | cytotechnologist - medical laboratory |

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| **3125** | D.P.M. (doctor of podiatric medicine) |
| **9437** | dado operator - woodworking |
| **9437** | dado saw operator - woodworking |
| **2121** | dairy bacteriologist |
| **0821** | dairy cattle breeder |
| **2112** | dairy chemist |
| **9465** | dairy cream tester |
| **7311** | dairy equipment repairer |
| **8252** | dairy farm foreman/woman |
| **8431** | dairy farm labourer |
| **0821** | dairy farm manager |
| **8431** | dairy farm worker |
| **8252** | dairy farm workers foreman/woman |
| **0821** | dairy farmer |
| **9465** | dairy grader - food and beverage processing |
| **8431** | dairy hand |
| **9617** | dairy helper - food and beverage processing |
| **8252** | dairy herdsperson |
| **9465** | dairy moisture tester |
| **2148** | dairy plant engineer |
| **9213** | dairy plant foreman/woman |
| **9461** | dairy plant machine operator |
| **0911** | dairy plant manager |
| **9465** | dairy product tester - food and beverage processing |
| **2222** | dairy products inspector |
| **9213** | dairy products processing foreman/woman |
| **9461** | dairy products specialty maker |
| **2221** | dairy products technician |
| **7514** | dairy route salesman/woman |
| **9617** | dairy sampler - food and beverage processing |
| **2121** | dairy scientist |
| **2221** | dairy technologist |

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| **9465** | dairy tester - food and beverage processing |
| **2264** | dam construction inspector |
| **7611** | dampproofer helper |
| **2131** | dams engineer |
| **0512** | dance company director |
| **5134** | dance instructor |
| **5134** | dance notator |
| **0651** | dance school manager |
| **5134** | dance teacher |
| **3144** | dance therapist |
| **3144** | dance therapists' supervisor |
| **3144** | dance therapy researcher |
| **5222** | dance videographer |
| **3144** | dance-movement therapist |
| **3144** | dance-movement therapy researcher |
| **5134** | dancer |
| **5134** | dancing instructor |
| **2263** | dangerous goods inspector - railway transport |
| **7511** | dangerous goods truck driver |
| **2263** | dangerous waste inspector |
| **8262** | Danish seine fisherman/woman |
| **9474** | darkroom technician |
| **9474** | darkroom technician - photographic processing |
| **2172** | data administrator |
| **2172** | data analyst - informatics and systems |
| **0213** | data centre manager |
| **2281** | data centre operator |
| **2147** | data communications specialist |
| **1422** | data control clerk |
| **1211** | data control supervisor |
| **2172** | data custodian |
| **2172** | data dictionary administrator |
| **1422** | data entry clerk |
| **1211** | data entry clerks supervisor |
| **1422** | data entry operator |
| **1211** | data entry supervisor |
| **1422** | data entry verifier-operator |
| **1422** | data input clerk |
| **2172** | data miner |
| **2172** | data mining analyst |
| **0213** | data processing and systems analysis manager |
| **2171** | data processing consultant |
| **1422** | data processing control clerk |
| **0213** | data processing director |
| **0213** | data processing manager |
| **0213** | data processing planning manager |
| **2172** | data processing specialist |
| **4031** | data processing teacher - secondary school |
| **1422** | data processing verifier |
| **1422** | data processor |
| **2172** | data scientist |
| **2172** | data warehouse analyst |
| **2172** | database administrator |
| **2172** | database analyst |
| **2172** | database architect |
| **2172** | database designer |
| **5111** | database librarian |
| **2172** | database management supervisor - computer systems |
| **2172** | database manager |
| **4021** | data-processing teacher - college level |
| **6564** | dating agency consultant |
| **6564** | dating service consultant |
| **5254** | day camp counsellor - recreation |
| **5254** | day camp leader |
| **6525** | day clerk - hotel |
| **4214** | daycare aide |
| **4214** | daycare attendant |
| **4214** | daycare co-ordinator |
| **4214** | daycare helper |
| **0411** | day-care planning services director - government services |
| **4214** | daycare supervisor |
| **4214** | daycare teacher |
| **4214** | daycare worker |
| **4214** | daycare worker assistant |
| **7247** | DBS (direct broadcast satellite) technician - cable television |
| **3122** | DC (doctor of chiropractic) |
| **4217** | deacon |
| **4217** | deaconess |
| **5125** | deaf interpreter |
| **0621** | dealer - retail |
| **0421** | dean - university or college |
| **0421** | dean of adult education |
| **0421** | dean of graduate studies |
| **0421** | dean of science |
| **0421** | dean of student activities |
| **0421** | dean of technical and technological programs |
| **1434** | death benefits clerk |
| **9434** | debarker operator - wood processing |
| **6235** | debt counsellor |
| **9619** | deburrer - clock and watch manufacturing |
| **9612** | deburrer - metal products manufacturing |
| **9536** | decal applier |
| **9441** | decating machine tender - textile manufacturing |
| **4165** | decision support analyst - health |
| **4165** | decision support specialist - health |
| **7441** | deck builder |
| **7441** | deck installer |
| **2273** | deck officer - cadet |
| **2273** | deck officer - water transport |
| **7611** | deck worker |
| **9432** | decker tender - pulp and paper |
| **9432** | deckerman/woman - pulp and paper |
| **7532** | deckhand |
| **7532** | deckhand - ships |
| **8411** | deckman/woman - underground mining |

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| **9414** | decorated products kilnman/woman - clay products |
| **5242** | decorating consultant |
| **7205** | decorating contractor |
| **7205** | decorating foreman/woman - construction |
| **9224** | decorating foreman/woman - furniture and fixtures manufacturing |
| **9414** | decorating kiln operator - clay products |
| **9414** | decorating machine tender - clay products |
| **5136** | decorations painter - visual arts |
| **5244** | decorative engraver |
| **9534** | decorator - furniture finishing and refinishing |
| **7205** | decorators foreman/woman |
| **1227** | deed recorder |
| **1227** | deed registrar |
| **5232** | deejay (DJ) - turntablist |
| **7384** | deep-sea diver |
| **9437** | defect trimmer - woodworking |
| **4112** | defence counsel |
| **9462** | dehairing machine dropper - meat packing plant |
| **9441** | dehairing machine operator - hide and pelt processing |
| **8252** | dehorning service contractor |
| **9421** | dehydrating press tender - chemical processing |
| **9461** | dehydrator, grain - food and beverage processing |
| **6421** | deli counter clerk - food store |
| **0621** | deli manager - food store |
| **6421** | delicatessen clerk - retail |
| **0621** | delicatessen department manager - retail |
| **6421** | delicatessen meat salesperson - retail |
| **6211** | delicatessen supervisor - food store |
| **8241** | delimber and buncher operator |
| **8241** | delimber operator |
| **7622** | deliverer helper |
| **1523** | delivery checker |
| **1521** | delivery clerk |
| **7514** | delivery driver |
| **7514** | delivery driver - parcels |
| **7305** | delivery drivers foreman/woman |
| **7305** | delivery drivers supervisor |
| **1513** | delivery person - courier service |
| **6211** | delivery person supervisor |
| **3011** | delivery room nursing supervisor |
| **7514** | delivery salesperson |
| **0132** | delivery service manager - postal and courier services |
| **6411** | delivery services sales agent |
| **6411** | delivery services sales representative |
| **7514** | delivery truck driver |
| **7622** | delivery truck driver helper |
| **7622** | delivery truck helper |
| **2161** | demographer |
| **7302** | demolition contractor |
| **7371** | demolition crane operator |
| **5251** | demolition driver |
| **7302** | demolition foreman/woman |
| **7611** | demolition worker |
| **2123** | demonstrator - Department of Agriculture |
| **6623** | demonstrator - retail |
| **4021** | denominational institute teacher |
| **7322** | dent remover and repairer - automobile |
| **3411** | dental aide |
| **9411** | dental amalgam processor |
| **3411** | dental assistant |
| **4021** | dental assistant program teacher - community college |
| **3223** | dental ceramic caster |
| **3223** | dental ceramic moulder |
| **3223** | dental ceramist |
| **1434** | dental claims clerk |
| **3411** | dental clinical assistant |
| **6221** | dental equipment and supplies salesperson |
| **7441** | dental equipment installer-servicer |
| **4165** | dental health consultant |
| **0311** | dental health services administrator |
| **3222** | dental hygiene technician |
| **3222** | dental hygienist |
| **4021** | dental hygienist program teacher |
| **3222** | dental hygienist technician |
| **9537** | dental instrument assembler |
| **3223** | dental laboratory assistant |
| **3223** | dental laboratory bench worker |
| **0311** | dental laboratory managing supervisor |
| **3223** | dental laboratory technician |
| **3223** | dental laboratory technician assistant |
| **3221** | dental mechanic |
| **3221** | dental mechanic apprentice |
| **3222** | dental nurse |
| **1414** | dental office receptionist |
| **3223** | dental prosthesis maker |
| **1414** | dental receptionist |
| **3113** | dental surgeon |
| **3223** | dental technician |
| **3223** | dental technician apprentice |
| **3223** | dental technician supervisor |
| **3223** | dental technologist |
| **3222** | dental therapist |
| **3113** | dentist |
| **4011** | dentistry professor - university |
| **3223** | denture bench moulder |
| **3223** | denture finisher |
| **3223** | denture framework finisher |
| **3221** | denture mechanic |
| **3223** | denture packer |
| **3223** | denture setter |
| **3223** | denture set-up man/woman |
| **3221** | denture technician |
| **3221** | denture therapist |
| **3223** | denture trimmer-polisher |
| **3223** | denture wax pattern former |

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| 3223 | denture wax pattern former - metal framework |
| 3221 | denturist |
| 3221 | denturologist |
| 4021 | department chairman/woman - college |
| 4021 | department chairman/woman - community college |
| 4011 | department chairman/woman - university |
| 4021 | department chairperson - college |
| 4021 | department chairperson - community college |
| 4011 | department chairperson - university |
| 4021 | department head - CEGEP |
| 4021 | department head - college |
| 4021 | department head - community college |
| 4021 | department head - institute of technology |
| 4021 | department head - private training institute |
| 4021 | department head - technical institute |
| 4011 | department head - university |
| 4021 | department head - vocational institute |
| 0621 | department manager - department store |
| 0621 | department manager - retail |
| 6421 | department store clerk |
| 6552 | department store information clerk |
| 0621 | department store manager |
| 0015 | department store president |
| 6211 | department store supervisor |
| 6211 | department supervisor - retail |
| 1111 | departmental accountant |
| 4112 | departmental solicitor |
| 6562 | depilator |
| 9611 | depiler helper - primary metal processing |
| 9611 | depiler table leverman/woman - primary metal processing |
| 1431 | deposit clerk |
| 1526 | depot clerk - transit system |
| 1227 | deputy administrator of the court |
| 0013 | deputy chief executive officer - financial, communications and other business services |
| 0016 | deputy chief executive officer - goods production, utilities, transportation and construction |
| 0014 | deputy chief executive officer - health, education, social and community services and membership organizations |
| 0013 | deputy chief executive officer - life insurance company |
| 0015 | deputy chief executive officer (CEO) - trade, broadcasting and other services |
| 0431 | deputy chief of police |
| 4112 | deputy city solicitor |
| 0414 | Deputy Clerk of the House of Commons |
| 0414 | Deputy Clerk of the Legislative Assembly |
| 0012 | deputy commissioner - government services |
| 1227 | deputy court registrar |
| 0432 | deputy fire chief |
| 4111 | deputy justice |
| 1227 | deputy land registrar |
| 0511 | deputy librarian |
| 0012 | deputy minister |
| 0012 | deputy minister - government services |
| 0012 | deputy municipal clerk |
| 0431 | deputy police chief |
| 0012 | deputy provincial secretary - government services |
| 1227 | deputy registrar - courts |
| 4168 | deputy returning officer |
| 4421 | deputy sheriff |
| 0422 | deputy superintendent - schools |
| 6562 | dermal therapist |
| 3111 | dermatologist |
| 7311 | derrick mechanic |
| 8412 | derrick worker - oil and gas drilling |
| 8412 | derrickhand - offshore drilling |
| 8412 | derrickhand - oil and gas drilling |
| 8412 | derrickman/woman |
| 8412 | derrickman/woman - oil and gas drilling |
| 2121 | descriptive toxicologist |
| 2134 | design and development chemical engineer |
| 2133 | design and development engineer - electrical and electronic systems |
| 2253 | design and drafting technologist |
| 9473 | design and lettering stamper - printing |
| 5223 | design assistant - advertising production |
| 6344 | design cutter - jewellery |
| 2253 | design draftsperson |
| 2132 | design engineer - mechanical |
| 6411 | design sales representative - wholesale |
| 2253 | design technician - drafting |
| 2253 | design technologist - drafting |
| 1315 | designated shipbroker |
| 5242 | designer - interior design |
| 5243 | designer - theatre |
| 5121 | designer and script writer |
| 9532 | desk assembler |
| 9224 | desk assembly foreman/woman |
| 9224 | desk assembly foreman/woman - furniture and fixtures manufacturing |
| 6525 | desk clerk, hotel |
| 4311 | desk officer - police |
| 9437 | desk sander - woodworking |
| 2282 | deskside support technician |
| 1423 | desktop compositor |
| 1423 | desktop publishing (DTP) operator |
| 1423 | desktop publishing (DTP) specialist |
| 1211 | desktop publishing operators supervisor |
| 1211 | desktop publishing supervisor |
| 1211 | desktop publishing system supervisor |
| 6711 | dessert maker |
| 6711 | dessert preparer |
| 9232 | desulphurizer operator |
| 9232 | desulphurizing unit operator |
| 9521 | detail assembler - aircraft assembly |
| 2253 | detail draftsperson |
| 9521 | detail inspector - aircraft assembly |

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| 2174 | detail programmer |
| 9437 | detail shaper - woodworking |
| 2253 | detailer |
| 2253 | detailer - structural steel drafter |
| 4311 | detective - police |
| 0125 | detective agency manager |
| 0431 | detective inspector - police |
| 0431 | detective sergeant - police |
| 4422 | detention attendant |
| 0423 | detention centre director |
| 4422 | detention guard |
| 4212 | detention home worker |
| 9421 | detergent and powdered soap screener-perfumer |
| 9212 | detergent and remover manufacturing foreman/woman |
| 2112 | detergent chemist |
| 9537 | detonator and fuse assembler |
| 9537 | detonator assembler |
| 9474 | developer-printer machine tender |
| 9474 | developing machine operator - photographic processing |
| 4423 | development control officer |
| 4162 | development economist |
| 2113 | development geologist |
| 9521 | development mechanic - aircraft assembly |
| 8231 | development miner |
| 1123 | development officer - university |
| 4212 | development service worker |
| 2241 | development technologist - telecommunications |
| 2121 | developmental biologist |
| 2121 | developmental geneticist |
| 4151 | developmental psychologist |
| 4212 | developmental service worker |
| 9421 | devulcanizer tender |
| 9411 | dewaterer tender - primary metal processing |
| 9411 | dewatering equipment operator |
| 9461 | dextrine maker - food and beverage processing |
| 3141 | diagnostic audiologist |
| 3216 | diagnostic cardiac sonographer |
| 3216 | diagnostic echography technician |
| 3215 | diagnostic imaging technologist |
| 6221 | diagnostic instrument sales representative |
| 3215 | diagnostic medical radiation technologist |
| 3216 | diagnostic medical sonographer |
| 3216 | diagnostic medical sonography instructor |
| 3215 | diagnostic radiography technologist |
| 3215 | diagnostic radiological technician |
| 3215 | diagnostic radiological technologist |
| 3111 | diagnostic radiologist |
| 3111 | diagnostic radiology specialist |
| 3215 | diagnostic radiology technologist |
| 7321 | diagnostic technician - motor vehicles |
| 3216 | diagnostic ultrasonography technician |
| 3216 | diagnostic ultrasound supervisor |
| 3216 | diagnostic ultrasound technician |
| 3216 | diagnostic ultrasound technologist - medical |
| 9537 | dial marker |
| 0131 | dial plant manager - telecommunications |
| 0131 | dial plant superintendent - telecommunications |
| 5121 | dialogue writer |
| 3012 | dialysis nurse |
| 3219 | dialysis technician |
| 3219 | dialysis technologist |
| 9414 | diamond abrasive wheel maker |
| 6344 | diamond and other gem cutting and polishing |
| 6344 | diamond bruter |
| 6344 | diamond cutter |
| 7372 | diamond drill operator - surface mining and quarrying |
| 8231 | diamond driller - underground mining |
| 7611 | diamond driller helper - surface mining |
| 8411 | diamond driller helper - underground mining |
| 8221 | diamond drilling foreman/woman |
| 2212 | diamond drilling technician |
| 6344 | diamond expert |
| 6344 | diamond grader - jewellery manufacturing |
| 9413 | diamond grinder operator - glass finishing |
| 6344 | diamond marker |
| 6344 | diamond polisher |
| 9411 | diamond powder blender |
| 9414 | diamond powder mixer - stone products |
| 7232 | diamond saw maker |
| 6344 | diamond sawyer |
| 6344 | diamond selector - jewellery manufacturing |
| 6344 | diamond setter |
| 7232 | diamond tool maker |
| 9413 | diamond wheel edger - glass finishing |
| 9414 | diamond wheel moulder and finisher |
| 8231 | diamond-drill operator |
| 8231 | diamond-drill runner - underground mining |
| 8231 | diamond-point drill operator |
| 9435 | diaper machine tender - paper converting |
| 9537 | dice maker |
| 9535 | dicer tender - plastic manufacturing |
| 9535 | dicing machine tender - plastic manufacturing |
| 7445 | dictaphone repairer |
| 7445 | dictaphone servicer |
| 1251 | dictatypist |
| 5135 | diction coach |
| 5122 | dictionary editor |
| 9523 | die attacher - electronic equipment manufacturing |
| 9612 | die blanking press operator helper - metal products manufacturing |
| 9211 | die casting foreman/woman - foundry |
| 9211 | die casting supervisor |
| 7232 | die cutter |
| 9445 | die cutter - fabric, fur and leather products manufacturing |

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| 7232 | die cutter - metalworking |
| 2232 | die designer |
| 7232 | die finisher |
| 7232 | die fitter |
| 7232 | die maker |
| 7232 | die maker - jewellery |
| 7232 | die mouldmaker |
| 7232 | die reamer |
| 7232 | die repairer |
| 7232 | die repairman/woman |
| 7384 | die setter |
| 7232 | die sinker |
| 7232 | die sinker - metalworking |
| 9471 | die stamper - printing |
| 7232 | diecast diemaker |
| 9412 | die-casting machine operator |
| 9412 | die-casting machine operator - foundry |
| 9412 | die-casting machine setter - foundry |
| 9412 | die-casting machine set-up man/woman - foundry |
| 9412 | die-casting machine tender - foundry |
| 9435 | die-cutting machine operator - paper products |
| 9473 | die-cutting or die-numbering press operator - printing |
| 9473 | die-cutting platen press operator - printing |
| 7237 | dielectric welder |
| 7242 | diesel electrician - railway |
| 9526 | diesel engine assembler |
| 9226 | diesel engine assembly foreman/woman |
| 9526 | diesel engine erector |
| 7231 | diesel engine machinist |
| 7312 | diesel engine mechanic |
| 7312 | diesel engine mechanic - heavy equipment |
| 7312 | diesel engine mechanic apprentice |
| 7312 | diesel engine repairman/woman - railway |
| 9526 | diesel engine tester |
| 2132 | diesel engineer - design and research |
| 9241 | diesel generating station operator - electrical power systems |
| 8231 | diesel loaderman/woman - underground mining |
| 7361 | diesel locomotive engineer - railway |
| 7312 | diesel locomotive repairman/woman |
| 7312 | diesel mechanic |
| 7312 | diesel mechanic - heavy equipment |
| 7312 | diesel mechanic apprentice |
| 7612 | diesel mechanic helper |
| 9241 | diesel plant operator - electrical power systems |
| 9241 | diesel station operator |
| 9417 | diesinking machine set-up operator |
| 6322 | diet kitchen cook |
| 6711 | dietary aide |
| 6322 | dietary cook |
| 3219 | dietary technician |
| 3219 | dietary technologist |
| 3132 | dietetic consultant |
| 1411 | dietetics office clerk - hospital |
| 3132 | dietician |
| 3132 | dietitian |
| 3132 | dietitian-nutritionist |
| 9526 | differential assembler |
| 7231 | differential gear testing machinist |
| 9461 | diffuser operator - food and beverage processing |
| 9523 | diffusion furnace operator - electronic equipment manufacturing |
| 9432 | digester cook - pulp and paper |
| 9432 | digester field operator |
| 9421 | digester operator - chemical processing |
| 9411 | digester operator - primary metal and mineral processing |
| 9432 | digester operator - pulp and paper |
| 9432 | digester tender - pulp and paper |
| 7611 | digger - construction |
| 5241 | digital animator - artist |
| 2133 | digital circuit design engineer |
| 2281 | digital computer operator |
| 5225 | digital effects specialist |
| 2241 | digital electronics technician |
| 5223 | digital graphic design technician |
| 9472 | digital printing technician |
| 5245 | digitizer operator - textile, leather and fur products |
| 9437 | dimension planer operator - woodworking |
| 7231 | dimensional inspector - machine shop |
| 9531 | dinghy assembler |
| 7322 | dingman/woman - autobody |
| 6513 | dining car steward |
| 6513 | dining car waiter/waitress |
| 0631 | dining establishment managing supervisor |
| 6711 | dining room assistant |
| 6711 | dining room attendant |
| 6513 | dining room captain |
| 6611 | dining room cashier |
| 6511 | dining room host/hostess |
| 0631 | dining room manager |
| 6513 | dining room steward |
| 5212 | dinosaur museum interpreter |
| 5212 | diorama maker - museums and art galleries |
| 5212 | diorama technician |
| 9527 | dip and bake operator - electrical equipment manufacturing |
| 9536 | dip tank attendant |
| 9434 | dip tank tender - wood processing |
| 4168 | diplomat |
| 4169 | diplomatic historian |
| 9536 | dipper and coater - metal plating |
| 9536 | dipper, coil springs |
| 9536 | dipper-baker |
| 9619 | dipping labourer |
| 9423 | dipping machine tender - rubber products manufacturing |

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| 9536 | dipping tank operator |
| 9536 | dipping tank tender |
| 9523 | dip-soldering machine operator - electronic equipment manufacturing |
| 7247 | direct broadcast satellite (DBS) technician - cable television |
| 6623 | direct distributor - retail |
| 1122 | direct mail specialist |
| 4021 | direct sales instructor |
| 6623 | direct seller |
| 8232 | directional driller - oil and gas drilling |
| 8222 | directional drilling consultant - oil and gas |
| 8232 | directional drilling operator |
| 8232 | directional drilling operator - oil and gas drilling |
| 0111 | director - financial services |
| 5131 | director - motion picture |
| 5131 | director - motion pictures, broadcasting and performing arts |
| 0012 | director general - government services |
| 0014 | director general - health, education, social and community services and membership organizations |
| 0111 | director of accounting |
| 0421 | director of admissions - post-secondary education |
| 0212 | director of architecture |
| 0311 | director of audiology and speech language pathology |
| 0311 | director of clinical medicine |
| 0423 | director of counselling |
| 0311 | director of dietetics |
| 0422 | director of education - correctional institution |
| 0413 | director of education - public administration |
| 0513 | director of fitness administration - government |
| 0423 | director of guidance services |
| 0311 | director of laboratory medicine |
| 0513 | director of leisure |
| 0513 | director of leisure and sports |
| 0731 | director of logistics - transportation |
| 0714 | director of maintenance |
| 0811 | director of mining |
| 0811 | director of mining operations |
| 0311 | director of nursing - medical services |
| 0311 | director of occupational therapy |
| 0423 | director of operations - housing department |
| 0731 | director of operations - transportation |
| 0911 | director of operations, manufacturing |
| 5131 | director of photography |
| 0311 | director of physiotherapy |
| 0311 | director of professional services - medical services |
| 0311 | director of psychology - health care |
| 0423 | director of public welfare |
| 0414 | director of public works |
| 0513 | director of recreation |
| 0513 | director of recreation and sports |
| 0212 | director of research - forestry |
| 0212 | director of research - manufacturing |
| 0212 | director of research - mining |
| 0421 | director of research - university or college |
| 0422 | director of school for the blind or deaf |
| 0422 | director of school for the hearing impaired |
| 0422 | director of school for the visually impaired |
| 0413 | director of school services |
| 0513 | director of sports administration - government |
| 0513 | director of sports and leisure |
| 0513 | director of sports and recreation |
| 0421 | director of student affairs |
| 0421 | director of studies - college |
| 0311 | director of surgery |
| 0213 | director of technology management |
| 0731 | director of traffic - transportation |
| 0731 | director of transportation |
| 0912 | director of waste management |
| 0912 | director of water pollution control |
| 0111 | director-treasurer - financial services |
| 1452 | directory clerk |
| 1452 | directory compiler |
| 6532 | dirigible pilot |
| 1434 | disability benefits clerk - insurance |
| 1121 | disability case manager - human resources |
| 1312 | disability claims examiner - insurance |
| 4153 | disability consultant |
| 1121 | disability management coordinator |
| 1121 | disability management practitioner |
| 1121 | disability management professional |
| 0112 | disability management program manager |
| 1121 | disability management specialist |
| 4212 | disability management worker |
| 4161 | disaster emergency response planner |
| 1312 | disaster relief claims adjuster - insurance |
| 0414 | disaster relief services co-ordinator |
| 1431 | disbursement clerk |
| 9416 | disc flanging operator - metal fabrication |
| 5231 | disc jockey - broadcast |
| 9411 | discharge door attendant |
| 1113 | discount broker |
| 1434 | discount clerk - financial sector |
| 5251 | discus thrower |
| 4012 | discussion group leader - post-secondary teaching assistant |
| 9414 | dish maker - clay products |
| 6711 | dishwasher |
| 9524 | dishwasher assembler |
| 7441 | dishwasher installer |
| 7332 | dishwasher repairer |
| 6711 | dishwashing machine attendant |
| 9437 | disk cutter - wood products |
| 9416 | disk flange operator |
| 9416 | disk flange operator - metal fabrication |
| 1215 | dispatch logistician |

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| 1215 | dispatchers supervisor |
| 3414 | dispensary assistant |
| 3131 | dispensary department supervisor - hospital |
| 3141 | dispensing audiologist |
| 3231 | dispensing optician |
| 3231 | dispensing optician student |
| 0621 | dispensing opticians office manager |
| 6411 | display advertising sales representative |
| 9537 | display balloon maker |
| 5243 | display design supervisor |
| 5243 | display designer |
| 5243 | display designer - museums and art galleries |
| 5243 | display designers supervisor |
| 6721 | display installer |
| 5212 | display officer - museums and art galleries |
| 2133 | displays and controls design engineer |
| 7452 | disposal worker - warehouse |
| 9232 | dissolver-precipitator |
| 4166 | distance education program co-ordinator |
| 4166 | distance education project officer |
| 4031 | distance education teacher - secondary school |
| 9613 | distillation equipment helper |
| 9613 | distillation equipment helper - chemical processing |
| 9232 | distillation equipment operator |
| 9212 | distillation foreman/woman - chemical processing |
| 9232 | distillation operator |
| 9461 | distilled liquors rectifier - food and beverage processing |
| 9461 | distilled liquors stillman/woman - food and beverage processing |
| 9613 | distiller helper - chemical processing |
| 9421 | distiller operator - soda ash processing |
| 9421 | distiller, wood distillation and charcoal |
| 9461 | distillery cooker - food and beverage processing |
| 9213 | distillery foreman/woman |
| 9461 | distillery grinder operator |
| 0911 | distillery manager |
| 9461 | distillery press operator |
| 9461 | distillery presser |
| 9461 | distillery skimmer |
| 9461 | distillery yeast maker - food and beverage processing |
| 7442 | distribution and maintenance worker - utilities |
| 1215 | distribution and transport logistics technician |
| 0731 | distribution and warehousing manager |
| 0714 | distribution centre manager |
| 1521 | distribution clerk |
| 7244 | distribution construction lineman |
| 9241 | distribution control operator |
| 9241 | distribution control operator - electrical power systems |
| 0731 | distribution director |
| 0731 | distribution manager - logistics |
| 0601 | distribution manager - sales |
| 0912 | distribution network director - utilities |
| 1215 | distribution officer |
| 0731 | distribution operations manager - logistics |
| 0912 | distribution operations manager - utilities |
| 2241 | distribution planning technologist |
| 0731 | distribution services manager |
| 1215 | distribution supervisor |
| 9241 | distribution system dispatcher apprentice - electrical power systems |
| 9241 | distribution system operator |
| 0912 | distribution systems director - utilities |
| 2123 | district agricultural specialist |
| 2123 | district agronomist |
| 4111 | district and surrogate court judge |
| 4111 | district court judge |
| 1227 | district court registrar |
| 2131 | district engineer |
| 0432 | district fire chief |
| 2122 | district forester |
| 7253 | district gas serviceman/woman |
| 2224 | district inspector - fisheries |
| 0411 | district manager - employment insurance |
| 0131 | district manager - telecommunications |
| 0431 | district police chief |
| 0132 | district post office director |
| 0121 | district sales manager, real estate |
| 6411 | district sales representative - wholesale |
| 0422 | district school assistant superintendent |
| 0422 | district school superintendent |
| 4421 | district sheriff |
| 2224 | district supervisor - fisheries |
| 6231 | district supervisor - insurance office |
| 7246 | districtman/woman - telecommunications |
| 7611 | ditch cleaner - construction |
| 2264 | ditch construction inspector |
| 7521 | ditcher operator - construction |
| 7302 | ditching foreman/woman |
| 7521 | ditching machine operator |
| 7384 | diver |
| 5251 | diver - olympic sport |
| 7612 | diver helper |
| 1434 | dividend calculation clerk |
| 1434 | dividend calculation clerk - financial sector |
| 9461 | dividing machine tender - food and beverage processing |
| 7384 | diving contractor |
| 7384 | diving supervisor |
| 0114 | division administrative manager |
| 0432 | division chief - fire department |
| 1111 | division controller - accounting |
| 0511 | division librarian |
| 0912 | division manager - petroleum distribution |
| 4311 | divisional diving supervisor - police |
| 0601 | divisional sales manager |
| 5232 | DJ (deejay) - turntablist |

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| **5231** | DJ (disc jockey) - broadcast |
| **9442** | dobby loom drawer-in |
| **9442** | dobby loom weaver |
| **7441** | dock builder-installer |
| **7271** | dock carpenter |
| **7302** | dock foreman/woman - marine cargo |
| **7451** | dock hand |
| **7451** | dockerman/woman - marine cargo handling |
| **7452** | dockman/woman - truck transport |
| **2224** | dockside monitor - fisheries |
| **2224** | dockside observer - fisheries |
| **7451** | dockworker |
| **7451** | dockworker - marine cargo handling |
| **3232** | doctor of acupuncture |
| **3232** | doctor of Chinese medicine |
| **3122** | doctor of chiropractic |
| **3122** | doctor of chiropractic (DC) |
| **3113** | doctor of dental surgery |
| **3232** | doctor of homeopathic therapeutics |
| **3232** | doctor of homeopathy |
| **3112** | doctor of medicine (MD) |
| **3125** | doctor of naturopathic medicine |
| **3125** | doctor of naturopathy |
| **3121** | doctor of optometry (OD) |
| **3232** | doctor of Oriental medicine |
| **3125** | doctor of osteopathic medicine |
| **3125** | doctor of osteopathy |
| **3125** | doctor of podiatric medicine (D.P.M.) |
| **3012** | doctor's office nurse |
| **1414** | doctor's office receptionist |
| **1253** | document management technician |
| **5212** | document restoration technician |
| **1253** | document technician |
| **1452** | documentalist |
| **1221** | documentation and projects analyst |
| **1452** | documentation clerk |
| **5111** | documentation librarian |
| **1253** | documentation technician |
| **1411** | documents clerk |
| **2211** | documents examiner - applied chemistry |
| **9616** | doffer |
| **0821** | dog breeder |
| **4423** | dog catcher |
| **6563** | dog groomer |
| **0651** | dog grooming establishment manager |
| **6563** | dog handler |
| **0651** | dog kennel manager |
| **6563** | dog master |
| **4311** | dog master - police |
| **6563** | dog master trainer |
| **6563** | dog trainer |
| **4423** | dog warden |
| **6532** | dogsledding guide |
| **9537** | doll assembly repairer |
| **9537** | doll hairstylist |
| **9537** | doll maker - manufacturing |
| **5227** | dolly operator - motion pictures and broadcasting |
| **5227** | dolly pusher - motion pictures and broadcasting |
| **7241** | domestic and rural electrician |
| **0821** | domestic animal breeder |
| **2121** | domestic animal scientist |
| **0013** | domestic banking operations vice-president |
| **6322** | domestic cook |
| **4412** | domestic housekeeper |
| **6731** | domestic maid - cleaning services |
| **7332** | domestic refrigerator repairer |
| **7332** | domestic refrigerator servicer |
| **6742** | domestic servant |
| **7445** | domestic sewing machine mechanic |
| **9446** | domestic sewing machine operator |
| **7445** | domestic sewing machine repairer |
| **7332** | domestic window air conditioner mechanic |
| **7332** | domestic window air conditioner repairer |
| **6332** | donut baker |
| **6332** | donut maker |
| **6711** | donut shop attendant |
| **6711** | donut shop clerk |
| **6711** | donut shop counter clerk |
| **9522** | door adjuster - motor vehicle manufacturing |
| **9522** | door and deck lid adjuster - motor vehicle manufacturing |
| **9227** | door and sash assembly foreman/woman |
| **9537** | door and window assembler, aluminum |
| **9522** | door assembler - motor vehicle manufacturing |
| **9537** | door assembler, aluminum |
| **6742** | door attendant (except hotel) |
| **9533** | door finisher - wood products manufacturing |
| **9522** | door fitter |
| **9522** | door fitter - motor vehicle manufacturing |
| **7611** | door frame installer |
| **9522** | door hanger - motor vehicle manufacturing |
| **7441** | door installer |
| **9522** | door paneler - motor vehicle manufacturing |
| **9533** | door patcher, wood - wood products manufacturing |
| **6721** | door person - hotel |
| **9619** | door sander |
| **9437** | door-hang machine operator - woodworking |
| **6742** | doorman/woman (except hotel) |
| **1513** | door-to-door distributor |
| **6211** | door-to-door sales supervisor |
| **6623** | door-to-door salesperson |
| **6211** | door-to-door salesperson supervisor - retail |
| **7611** | dope machine operator - pipelines |
| **5245** | doper - fabric products |
| **5245** | doper and marker |
| **9472** | dot etcher |
| **9472** | dot etcher - printing |
| **9446** | double needle sewing machine operator |
| **9446** | double needle sewing machine stitcher |

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| **9441** | doubling machine operator - textile manufacturing |
| **9441** | doubling machine tender - textile manufacturing |
| **9617** | dough feeder - food and beverage processing |
| **9461** | dough maker - food and beverage processing |
| **9617** | dough roller |
| **9617** | dough weigher |
| **9461** | dough-kneading machine tender |
| **6711** | doughnut shop attendant |
| **6711** | doughnut shop clerk |
| **6711** | doughnut shop counter clerk |
| **4412** | doula |
| **9437** | dovetail machine operator - woodworking |
| **9437** | dowel machine operator - woodworking |
| **9437** | dowel machine set-up operator - woodworking |
| **9437** | dowel machine tender |
| **9437** | dowel pointer - woodworking |
| **9437** | dowelling machine operator - woodworking |
| **9437** | dowelling machine set-up operator - woodworking |
| **9437** | dowelling machine tender - woodworking |
| **9437** | dowel-making machine operator - woodworking |
| **9437** | dowel-making machine set-up operator - woodworking |
| **9437** | dowel-making machine tender - woodworking |
| **7237** | downhand welder - pipeline |
| **8231** | downhole loader - underground mining |
| **8232** | downhole tool operator |
| **8232** | downhole tool operator - oil and gas drilling |
| **7521** | dozer operator |
| **2253** | drafter |
| **2253** | drafting checker |
| **2253** | drafting clerk |
| **2253** | drafting design checker |
| **2253** | drafting group leader |
| **4021** | drafting instructor |
| **4021** | drafting instructor - college level |
| **2253** | drafting office supervisor |
| **2253** | drafting supervisor |
| **4021** | drafting teacher |
| **4021** | drafting teacher - college level |
| **2253** | drafting technician |
| **2253** | drafting technologist |
| **2253** | drafting tracer |
| **2253** | draftsman/woman |
| **2253** | draftsperson |
| **2253** | draftsperson - computer-assisted design |
| **2253** | draftsperson hull - shipbuilding and repair |
| **2253** | draftspersons supervisor |
| **9431** | drag saw operator - sawmill |
| **7371** | dragline crane operator |
| **7535** | dragline oiler |
| **7371** | dragline operator - crane |
| **7611** | dragline operator helper |
| **7611** | dragline operator helper - crane operation |
| **7522** | drain roto servicer - public works |
| **9414** | drain tile auger machine operator - clay products |
| **2131** | drainage design engineer |
| **6732** | drain-roto cleaner |
| **5135** | drama actor |
| **5135** | drama coach |
| **5123** | drama critic |
| **4011** | drama professor - university |
| **5135** | drama teacher - private or studio |
| **4031** | drama teacher - secondary school |
| **3144** | drama therapist |
| **3144** | drama therapists' supervisor |
| **4169** | dramatic arts historian |
| **5135** | dramatic arts teacher - private or studio |
| **5135** | dramatic reader |
| **9447** | draper |
| **6421** | drapery and upholstery salesperson - retail |
| **6741** | drapery cleaner |
| **6741** | drapery cleaner - laundry and dry cleaning |
| **7441** | drapery hanger |
| **9446** | drapery header |
| **9446** | drapery heading maker |
| **7441** | drapery installer |
| **9619** | drapery making labourer |
| **9619** | drapery pleater, hand |
| **9446** | drapery sewer |
| **9532** | drawer assembler |
| **9532** | drawer fitter |
| **9611** | drawer helper - primary metal processing |
| **9442** | drawer-in - textiles |
| **9442** | drawer-in helper - textiles |
| **9537** | drawing instrument assembler |
| **9413** | drawing kiln operator - glass forming |
| **9441** | drawing machine tender - textile fibre |
| **9442** | drawing-in machine operator |
| **9442** | drawing-in machine operator - textiles |
| **1411** | drawings filing clerk |
| **9619** | drawstring inserter - garment manufacturing |
| **2273** | dredge captain |
| **2273** | dredge commanding officer |
| **7532** | dredge deckhand |
| **2273** | dredge mate |
| **7312** | dredge mechanic |
| **7521** | dredge operator |
| **7312** | dredge repairer |
| **7521** | dredge runner |
| **7611** | dredge worker |
| **7302** | dredgemaster - construction |
| **7302** | dredging equipment operators foreman/woman |
| **7302** | dredging foreman/woman |
| **9619** | dress finisher |

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| 5245 | dress patternmaker |
| 9217 | dress repairs foreman/woman - clothing manufacturing |
| 8252 | dressage and stunt horse trainer |
| 5254 | dressage instructor |
| 9441 | dressed hide and pelt finisher |
| 9465 | dressed poultry grader |
| 9612 | dresser - metal products manufacturing |
| 5227 | dresser - motion pictures, broadcasting and performing arts |
| 9441 | dresser - textile manufacturing |
| 9461 | dressing and sauce mixer |
| 9461 | dressing mixer operator - food and beverage processing |
| 6342 | dressmaker |
| 9217 | dressmakers supervisor |
| 9217 | dressmaking department foreman/woman |
| 9217 | dressmaking department supervisor |
| 8231 | drift driller - underground mining |
| 8231 | drift miner |
| 9521 | drill and ream mechanic - aircraft assembly |
| 8411 | drill carriage operator helper - underground mining |
| 8221 | drill fitter boss - mining |
| 8221 | drill fitter foreman/woman - mining |
| 9612 | drill grinder - metal products manufacturing |
| 9437 | drill operator - woodworking |
| 9417 | drill press operator - metal machining |
| 9414 | drill press operator - stone products |
| 9437 | drill press operator - woodworking |
| 9417 | drill press set-up operator - metal machining |
| 9435 | drill punch tender - paper converting |
| 8232 | drill stem tester |
| 8232 | drill stem tester - oil and gas drilling |
| 8232 | driller - offshore drilling rig |
| 8232 | driller - oil and gas drilling |
| 7372 | driller - quarrying |
| 7372 | driller - surface mine |
| 7372 | driller - surface mining |
| 8231 | driller - underground mining |
| 7611 | driller helper - surface mining |
| 8411 | driller helper - underground mining |
| 7302 | drilling and blasting foreman/woman - construction |
| 9417 | drilling and milling machine operator - metal machining |
| 2145 | drilling and recovery chief engineer |
| 2145 | drilling and recovery petroleum engineer |
| 2212 | drilling fluid technician |
| 8221 | drilling foreman/woman - mining and quarrying |
| 7372 | drilling machine operator - construction |
| 9417 | drilling machine operator - metal machining |
| 8231 | drilling machine operator - underground mining |
| 0811 | drilling operations manager |
| 7237 | drilling platform welder |
| 7371 | drilling rig crane operator |
| 3234 | drilling rig medic |
| 3234 | drilling rig medical technician |
| 3234 | drilling rig medical warden |
| 3234 | drilling rig medical worker |
| 1525 | drilling rig radio operator |
| 1522 | drilling rig storekeeper |
| 7237 | drilling rig welder |
| 2241 | drilling rigs electronic technician |
| 7321 | drive train automotive technician |
| 6711 | drive-in food service attendant |
| 6722 | drive-in theatre attendant |
| 7622 | driver helper |
| 7514 | driver salesman/woman |
| 7514 | driver salesperson |
| 4216 | driver's licence examiner |
| 7305 | driver-salesmen/women supervisor |
| 4216 | driving examiner |
| 4216 | driving instructor |
| 6722 | driving range attendant |
| 4216 | driving school instructor |
| 0651 | driving school manager |
| 9416 | drop forge hand |
| 9416 | drop forge operator |
| 9416 | drop forge operator - metal forging |
| 9416 | drop forger |
| 9416 | drop hammer forger |
| 9612 | drop hammer helper - metal fabrication |
| 9416 | drop hammer operator - metal forging |
| 9434 | drop sorter operator - wood processing |
| 4212 | drop-in centre worker |
| 9442 | drop-pinning machine operator - textiles |
| 9231 | dross furnace operator |
| 9611 | dross skimmer - primary metal and mineral products processing |
| 9411 | dross treatment operator - zinc melting |
| 4153 | drug addiction counsellor |
| 4212 | drug addiction worker |
| 4165 | drug and alcohol abuse consultant |
| 9421 | drug and toilet goods weigher |
| 9537 | drug and toilet preparations inspector |
| 3131 | drug information pharmacist |
| 4311 | drug investigator - police |
| 0431 | drug squad inspector - police |
| 7514 | drug store delivery driver |
| 3131 | druggist |
| 6421 | drugstore clerk |
| 3414 | drugstore dispensing assistant |
| 0621 | drugstore manager |
| 3414 | drugstore side room attendant |
| 9434 | drum barker tender - wood processing |
| 9423 | drum builder, rubber |
| 5244 | drum maker - artisan |
| 9536 | drum painter |
| 9437 | drum sander - woodworking |
| 9437 | drum sander operator - woodworking |
| 5133 | drummer |

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| **9527** | dry battery coremaking machine tender |
| **9527** | dry battery inspector - electrical equipment manufacturing |
| **9527** | dry battery process room operator - electrical equipment manufacturing |
| **9527** | dry battery tester - electrical equipment manufacturing |
| **9441** | dry cans operator - textile manufacturing |
| **9527** | dry cell and battery assembler |
| **9527** | dry cell assembler |
| **9223** | dry cell assemblers supervisors |
| **9527** | dry cell assembly machine feeder - electrical equipment manufacturing |
| **9527** | dry cell battery assembler |
| **9527** | dry cell charge machine operator |
| **9527** | dry cell charge machine operator - electrical equipment manufacturing |
| **9527** | dry cell charger operator - electrical equipment manufacturing |
| **9527** | dry cell coremaking machine tender |
| **9527** | dry cell coremaking machine tender - electrical equipment manufacturing |
| **9619** | dry cell remover - electrical equipment manufacturing |
| **9527** | dry cell sealer - electrical equipment manufacturing |
| **9527** | dry cell tester - electrical equipment manufacturing |
| **9527** | dry cell tube machine assembler - electrical equipment manufacturing |
| **9614** | dry chain offbearer - wood processing |
| **9614** | dry chainman/woman - wood processing |
| **6741** | dry cleaner |
| **6741** | dry cleaner helper |
| **6316** | dry cleaner supervisor |
| **7514** | dry cleaning driver |
| **6741** | dry cleaning machine operator - laundry and dry cleaning |
| **6741** | dry cleaning machine operator helper |
| **0651** | dry cleaning plant manager |
| **6316** | dry cleaning production supervisor |
| **0651** | dry cleaning service manager |
| **6316** | dry cleaning supervisor |
| **9617** | dry curer - food and beverage processing |
| **7533** | dry dock worker - shipbuilding |
| **9421** | dry explosive mixer |
| **9461** | dry foods mixer operator |
| **9421** | Dry Ice maker |
| **9414** | dry pan operator - stone products |
| **9414** | dry plaster mixer |
| **9414** | dry press operator - clay products |
| **9414** | dry products mixer - stone products |
| **9461** | dry starch maker |
| **9461** | dry starch maker helper |
| **9461** | dry starch operator - food and beverage processing |
| **9461** | dry starch worker - food and beverage processing |
| **9441** | dryer - textile manufacturing |
| **9461** | dryer and cooler operator - tobacco processing |
| **9421** | dryer operator - chemical processing |
| **9461** | dryer operator - food processing |
| **9411** | dryer operator - mineral and metal processing |
| **9441** | dryer operator - textile manufacturing |
| **9421** | dryer operator, soap flakes |
| **9421** | dryer tender - chemical processing |
| **9441** | dryer tender - textile manufacturing |
| **9461** | dryer tender - tobacco processing |
| **9613** | dryer tender helper - chemical processing |
| **9432** | dryer tender, insulation boards |
| **9611** | dryer worker - primary metal processing |
| **9421** | dryhouse attendant - chemical processing |
| **9461** | drying drum tender - food and beverage processing |
| **9434** | drying kiln operator - wood processing |
| **9616** | drying machine helper - textile processing |
| **9441** | drying machine operator - textile manufacturing |
| **9461** | drying machine operator - tobacco processing |
| **9414** | drying machine tender - clay products |
| **9441** | drying machine tender - textile manufacturing |
| **9616** | drying machine tender - textile processing |
| **8411** | dryman/woman - underground mining |
| **9412** | dry-sand moulder - foundry |
| **9213** | dry-starch foreman/woman - food processing |
| **7284** | drywall and acoustic mechanic |
| **7611** | drywall and acoustical board installer helper |
| **7611** | drywall and acoustical installer helper |
| **7284** | drywall and ceiling system installer |
| **7284** | drywall and lather applicator |
| **7205** | drywall application contractor |
| **7284** | drywall applicator |
| **7205** | drywall applicators foreman/woman |
| **7205** | drywall contractor |
| **7284** | drywall finisher |
| **7284** | drywall finisher apprentice |
| **7284** | drywall hanger |
| **7284** | drywall installer |
| **7284** | drywall installer and finisher |
| **7284** | drywall installer and finisher apprentice |
| **7284** | drywall installer lead hand |
| **7205** | drywall installer supervisor |
| **7284** | drywall installer team leader |
| **7284** | drywall interior systems installer |
| **7284** | drywall mechanic |
| **7284** | drywall nailer |
| **7284** | drywall nailing person |
| **7611** | drywall sander |
| **7284** | drywall taper |

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|---|---|
| 7205 | drywaller-contractor |
| 1423 | DTP (desktop publishing) operator |
| 1423 | DTP (desktop publishing) specialist |
| 3144 | DTR (registered dance therapist) |
| 9416 | dual action hammer operator - metal forging |
| 5121 | dubbing dialogue writer |
| 5225 | dubbing machine operator |
| 7441 | duct installer |
| 7441 | duct installer - construction |
| 6532 | dude wrangler |
| 8613 | dulse gatherer |
| 7318 | dumbwaiter installer-repairer |
| 7511 | dump truck driver |
| 7452 | dumper - material handling |
| 7452 | dumper - surface coal mining |
| 9617 | dumping machine tender - food and beverage processing |
| 7621 | dumpman/woman |
| 7511 | dumpster truck driver |
| 5227 | duplicate-film examiner - motion pictures and broadcasting |
| 9523 | duplicating machine assembler |
| 9416 | duplicator punch operator - metal fabrication |
| 9537 | dust brush maker |
| 9537 | dust mop assembler |
| 9537 | dust mop maker |
| 9411 | dust operator |
| 9411 | dust pump operator - slag furnace |
| 9611 | dust remover - primary metal processing |
| 9611 | dust-collector labourer - primary metal processing |
| 9537 | duster maker |
| 2112 | dye chemist |
| 9217 | dye department foreman/woman - textiles |
| 9217 | dye foreman/woman - textiles |
| 9421 | dye maker |
| 9441 | dye mixer |
| 2261 | dye penetrant technician |
| 2261 | dye penetrant tester |
| 9217 | dye room foreman/woman - textile processing |
| 9217 | dye room supervisor |
| 9217 | dye room supervisor - textiles |
| 9217 | dye room supervisor - textiles processing |
| 9217 | dyehouse foreman/woman - hide and pelt processing |
| 9217 | dyehouse foreman/woman - textiles |
| 9217 | dyehouse supervisor - textile processing |
| 9616 | dyeing and finishing machine loader |
| 2211 | dyeing and finishing technician |
| 2211 | dyeing and finishing technologist |
| 9441 | dyeing machine tender - textile manufacturing |
| 9441 | dyeing range operator - textile manufacturing |
| 9217 | dyeing supervisor - textiles |
| 2211 | dyeing technician |
| 9441 | dyeing tub tender - textile manufacturing |
| 9441 | dyeing vat operator - textile manufacturing |
| 9441 | dyeing worker - textile manufacturing |
| 9441 | dyer |
| 6741 | dyer - laundry and dry cleaning |
| 9441 | dyer - textile manufacturing |
| 9616 | dyer helper - textile processing |
| 9441 | dye-reel tender - textile manufacturing |
| 8412 | dynamic positioning operator - offshore drilling |
| 7302 | dynamiters foreman/woman - construction |
| 8221 | dynamiters foreman/woman - quarrying |
| 7302 | dynamiting foreman/woman - construction |

## E

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|---|---|
| 3111 | ear specialist |
| 4214 | early childhood assistant |
| 4021 | early childhood education instructor - college level |
| 4021 | early childhood education teacher - college level |
| 4214 | early childhood education worker |
| 4214 | early childhood educator - junior kindergarten |
| 4214 | early childhood educator - kindergarten |
| 4214 | early childhood educator - preschool |
| 4214 | early childhood educator (E.C.E.) |
| 4214 | early childhood educator assistant |
| 4214 | early childhood educator assistant - junior kindergarten |
| 4214 | early childhood educator assistant - kindergarten |
| 4214 | early childhood program staff assistant |
| 4214 | early childhood program supervisor |
| 4032 | early childhood services teacher - elementary school |
| 4214 | early childhood supervisor |
| 9423 | earth mover tire builder |
| 0131 | earth station manager - telecommunications |
| 7312 | earthmoving equipment mechanic |
| 7521 | earth-moving equipment operator |
| 7611 | earthworks labourer - construction |
| 4153 | eating disorder therapist |
| 7205 | eavestrough contractor |
| 7205 | eavestrough installation contractor |
| 7441 | eavestrough installer |
| 0124 | e-business (electronic business) manager |
| 2174 | e-business (electronic business) software developer |
| 2175 | e-business (electronic business) Web site developer |
| 0124 | e-business manager |
| 2175 | e-business Web site developer |
| 4214 | ECE assistant |
| 3217 | ECG (electrocardiographic) technician |
| 3217 | ECG (electrocardiographic) technologist |

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|---|---|
| 3216 | echocardiographer |
| 3216 | echocardiography technician |
| 3216 | echocardiography technologist |
| 3216 | echocardiography technologist sonographer |
| 3217 | echoencephalographic technologist |
| 3217 | echoencephalography technician |
| 3216 | echography technician |
| 3216 | echography technologist |
| 2121 | ecobiologist |
| 5212 | ecological interpreter |
| 0212 | ecological research manager |
| 2221 | ecological technician |
| 2221 | ecological technologist |
| 2121 | ecologist |
| 0212 | ecology manager |
| 0124 | e-commerce (electronic commerce) manager |
| 0601 | e-commerce (electronic commerce) sales manager |
| 2174 | e-commerce (electronic commerce) software developer |
| 2175 | e-commerce (electronic commerce) Web site developer |
| 0124 | e-commerce manager |
| 2175 | e-commerce Web site developer |
| 4162 | econometrician |
| 4162 | economic advisor |
| 0412 | economic analysis chief - government services |
| 4162 | economic analyst |
| 0412 | economic and political affairs assistant |
| 0412 | economic and trade analysis director - government services |
| 2121 | economic botanist |
| 4162 | economic consultant |
| 4163 | economic development consultant |
| 0412 | economic development co-ordinator |
| 0412 | economic development director - government services |
| 4163 | economic development officer |
| 4163 | economic development officer - Aboriginal communities |
| 4163 | economic development officer - government |
| 4163 | economic forecaster |
| 4169 | economic geographer |
| 4169 | economic historian |
| 4162 | economic policy adviser |
| 0412 | economic policy analysis assistant director - government services |
| 0412 | economic policy analysis chief - government services |
| 0412 | economic policy analysis director - government services |
| 4162 | economic policy analyst |
| 4162 | economic policy researcher |
| 4162 | economic research group supervisor |
| 4163 | economic research officer |
| 4011 | economics professor - university |
| 4021 | economics teacher - college level |
| 4031 | economics teacher - secondary school |
| 4162 | economist |
| 2261 | eddy current technician |
| 2261 | eddy current tester |
| 9437 | edge bander - woodworking |
| 9437 | edge bander operator - woodworking |
| 9434 | edge gluer - wood processing |
| 9431 | edger - sawmill |
| 9431 | edger operator, automatic - sawmill |
| 9431 | edgerman/woman |
| 9431 | edgerman/woman - sawmill |
| 9617 | edible oil processing labourer |
| 9461 | edible oil pumper - food and beverage processing |
| 9461 | edible oil refiner - food and beverage processing |
| 9617 | edible oil refiner helper |
| 1452 | editing clerk |
| 5122 | editor |
| 1452 | editorial assistant |
| 5241 | editorial cartoonist |
| 0512 | editorial chief |
| 1452 | editorial clerk |
| 5122 | editorial consultant |
| 5122 | editorial page editor |
| 0512 | editor-in-chief |
| 9417 | EDM (electrical discharge machine) operator |
| 9417 | EDM (electrical discharge machine) set-up operator |
| 9417 | EDM (electrical discharge machine) tender |
| 2172 | EDP (electronic data processing) analyst |
| 0213 | EDP (electronic data processing) manager |
| 2172 | EDP (electronic data processing) specialist |
| 2172 | EDP (electronic data processing) systems analyst |
| 1422 | EDP (electronic data-processing) equipment operator |
| 6221 | EDP (electronic data-processing) hardware and services sales representative |
| 1211 | EDP (electronic data-processing) unit - supervisor |
| 4166 | education consultant |
| 6421 | education courses salesperson |
| 0413 | education curriculum development director |
| 0413 | education curriculum development director - public administration |
| 0413 | education director |
| 4033 | education officer |
| 4166 | education outreach program co-ordinator |
| 4166 | education policy advisor |
| 0413 | education policy analysis and research director |
| 4166 | education policy analyst |
| 0413 | education policy and research director - public administration |
| 4166 | education policy consultant |

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| **0413** | education policy development manager |
| **0413** | education policy manager |
| **4166** | education policy officer |
| **4166** | education policy supervisor |
| **4011** | education professor - university |
| **0413** | education program administration manager |
| **4166** | education program co-ordinator |
| **4166** | education program officer |
| **4166** | education program planner |
| **0421** | education programs administrator |
| **0413** | education programs assistant director |
| **0413** | education programs assistant director - public administration |
| **0413** | education programs regional director |
| **0413** | education programs support director - public administration |
| **4311** | education relations officer - policing |
| **0413** | education research and information director |
| **4166** | education research officer |
| **4166** | education researcher |
| **4166** | education science specialist |
| **2161** | education statistician |
| **4166** | educational and vocational information specialist |
| **4413** | educational assistant |
| **3141** | educational audiologist |
| **4033** | educational counsellor |
| **4033** | educational guidance director |
| **0014** | educational institution chief financial officer (CFO) |
| **5125** | educational interpreter |
| **0413** | educational programs support assistant director |
| **4151** | educational psychologist |
| **4413** | educational resources assistant |
| **4169** | educational sociologist |
| **3141** | educational speech-language pathologist |
| **4214** | educator assistant - junior kindergarten |
| **0014** | educators association chairperson |
| **3217** | EEG (electroencephalograph) chief technologist |
| **3217** | EEG (electroencephalograph) technician |
| **3217** | EEG (electroencephalograph) technologist |
| **3217** | EEG (electroencephalography) technologist |
| **2221** | eel culture technician |
| **0823** | eel farmer |
| **2141** | efficiency engineer |
| **5222** | EFP (electronic field production) camera operator |
| **9617** | egg breaker - food and beverage processing |
| **8431** | egg candler |
| **8431** | egg collector |
| **8431** | egg gatherer |
| **8431** | egg grader |
| **8431** | egg grading machine tender |
| **8431** | egg grading station labourer |
| **8252** | egg grading station manager |
| **8431** | egg packer - farm |
| **8431** | egg picker - poultry |
| **8431** | egg processing machine tender |
| **0821** | egg producer |
| **5125** | elbow interpreter |
| **0124** | election campaign manager |
| **4168** | election commission officer |
| **1454** | election enumerator |
| **0414** | Elections Canada director |
| **0414** | elections expenses director |
| **0414** | elections finances director |
| **4168** | elections officer |
| **0414** | elections planning director |
| **9524** | electric air conditioning assembler |
| **7441** | electric appliance installer |
| **9524** | electric appliance manufacturing inspector |
| **7332** | electric appliance service technician |
| **9416** | electric arc cutter - metal products manufacturing |
| **9231** | electric arc furnace operator - primary metal processing |
| **7237** | electric arc welder |
| **9524** | electric baseboard heater assembler |
| **9527** | electric bulb maker |
| **9223** | electric cable manufacturing foreman/woman |
| **7612** | electric cable network installer helper |
| **7612** | electric cable splicer helper |
| **9524** | electric clock assembler |
| **9524** | electric clock components inspector |
| **9524** | electric clock parts inspector |
| **9524** | electric coffee maker assembler |
| **9524** | electric contact tester |
| **7371** | electric crane operator |
| **7452** | electric dolly operator |
| **7371** | electric dragline operator |
| **7332** | electric dryer repairer |
| **9524** | electric fan assembler |
| **7332** | electric fireplace servicer |
| **9526** | electric furnace assembler |
| **9412** | electric furnace operator - foundry |
| **9231** | electric furnace operator - primary metal and mineral products processing |
| **9527** | electric fuse maker |
| **7371** | electric gantry crane operator |
| **0912** | electric generating plant manager |
| **0912** | electric generating station manager |
| **7535** | electric golf cart servicer (except mechanic) |
| **9524** | electric heating system assembly line worker |
| **7441** | electric household appliance installer |
| **7441** | electric household appliance installer - residential and commercial equipment |
| **7332** | electric household appliance servicer |
| **9524** | electric lamp inspector and tester |
| **9524** | electric lamp maker |
| **9524** | electric lamp parts inspector |
| **9524** | electric lamp wirer |
| **9524** | electric lantern maker |

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| **9524** | electric lawn mower inspector and tester |
| **7332** | electric lawn mower repairer |
| **8232** | electric line operator |
| **8232** | electric line operator - oil field services |
| **7244** | electric meter installer - electric power systems |
| **7202** | electric meter installers foreman/woman |
| **7202** | electric meter installers supervisor |
| **7333** | electric meter repairer |
| **7333** | electric meter repairer apprentice |
| **7244** | electric meter setter - electric power systems |
| **7333** | electric meter technician |
| **9525** | electric meter tester - industrial electrical equipment |
| **7371** | electric monorail crane operator |
| **9223** | electric motor and generator assembly foreman/woman |
| **9525** | electric motor assembler |
| **9525** | electric motor inspector |
| **7333** | electric motor mechanic |
| **7301** | electric motor repair foreman/woman |
| **7333** | electric motor repairer |
| **7333** | electric motor repairer and tester |
| **7612** | electric motor repairer helper |
| **7333** | electric motor repairer-tester |
| **7333** | electric motor repairman/woman |
| **7301** | electric motor shop foreman/woman |
| **7333** | electric motor systems technician |
| **9619** | electric motor tester helper |
| **9223** | electric motor testing foreman/woman |
| **9619** | electric motor testing helper |
| **7333** | electric motor winder |
| **7333** | electric motor winder-repairer |
| **7452** | electric mule operator |
| **7612** | electric power and wire communications labourer |
| **0016** | electric power company president |
| **0912** | electric power plant manager |
| **0912** | electric power services manager |
| **9524** | electric range assembler |
| **7332** | electric refrigerator servicer |
| **9524** | electric sign assembler |
| **7441** | electric sign erector |
| **7445** | electric sign repairer |
| **7242** | electric signal repairer - railway |
| **9524** | electric snowblower inspector and tester |
| **7237** | electric spot welder |
| **7237** | electric spot welder operator |
| **7237** | electric spot-welding machine operator |
| **9524** | electric stove assembler |
| **7332** | electric stove repairman/woman |
| **7332** | electric stove serviceman/woman |
| **9524** | electric toaster inspector |
| **7332** | electric tool repairer |
| **7445** | electric toy repairer |
| **7452** | electric truck operator |
| **7535** | electric truck servicer (except mechanic) |
| **7201** | electric welding pipe mill headwelder |
| **9524** | electrical accessories assembler |
| **2244** | electrical accessories shop inspector - avionics |
| **2241** | electrical and electronics design technologist |
| **2241** | electrical and electronics quality control technologist |
| **2133** | electrical and electronics research engineer |
| **2244** | electrical and electronics technician - avionics |
| **2234** | electrical and mechanical quantity surveyor |
| **7333** | electrical apparatus mechanic |
| **9524** | electrical appliance assembler |
| **9223** | electrical appliance assemblers supervisor |
| **9223** | electrical appliance assembly foreman/woman |
| **9524** | electrical appliance assembly inspector |
| **9223** | electrical appliance assembly supervisor |
| **9524** | electrical appliance assembly tester |
| **9524** | electrical appliance bench assembler |
| **9524** | electrical appliance bench worker |
| **9524** | electrical appliance inspector |
| **7441** | electrical appliance installer |
| **9223** | electrical appliance manufacturing supervisor |
| **9524** | electrical appliance operator-assembler |
| **9524** | electrical appliance production assembler |
| **7301** | electrical appliance repair shop supervisor |
| **7332** | electrical appliance repairer |
| **9524** | electrical appliance repairer, production line |
| **7332** | electrical appliance serviceman/woman |
| **7332** | electrical appliance servicer |
| **7332** | electrical appliance technician |
| **7202** | electrical appliances installation foreman/woman |
| **7244** | electrical cable installer - electric power systems |
| **7244** | electrical cable splicer - electric power systems |
| **9527** | electrical connection crimper |
| **7202** | electrical construction contractor |
| **7202** | electrical construction foreman/woman |
| **9524** | electrical continuity tester - electrical appliance manufacturing |
| **9525** | electrical continuity tester - industrial electrical equipment |
| **7202** | electrical contractor |
| **9525** | electrical control equipment fitter-assembler |
| **9525** | electrical control panel assembler |
| **9525** | electrical control panel final assembler |
| **9525** | electrical control panel subassembler |
| **9524** | electrical control tester |
| **9524** | electrical controls calibrator |
| **9524** | electrical controls inspector |
| **2133** | electrical design engineer |
| **9417** | electrical discharge machine (EDM) operator |
| **9417** | electrical discharge machine (EDM) tender |

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| 2133 | electrical distribution engineer |
| 2133 | electrical distribution planning engineer |
| 2253 | electrical drafting supervisor |
| 2253 | electrical draftsperson |
| 9223 | electrical dry cell assembly foreman/woman |
| 9527 | electrical dry cell inspector |
| 9527 | electrical dry cell inspector - electrical equipment manufacturing |
| 9527 | electrical dry cell-making inspector |
| 2264 | electrical energy installation inspector |
| 2133 | electrical energy transmission engineer |
| 2133 | electrical energy transmission planning engineer |
| 2133 | electrical engineer |
| 2241 | electrical engineering design technologist |
| 4011 | electrical engineering professor - university |
| 0211 | electrical engineering service manager |
| 2241 | electrical engineering technician |
| 2241 | electrical engineering technologist |
| 9524 | electrical equipment assembler |
| 9524 | electrical equipment assembly line setter |
| 9527 | electrical equipment base filler |
| 2133 | electrical equipment engineer |
| 9527 | electrical equipment impregnator |
| 7202 | electrical equipment installation and repair foreman/woman |
| 9223 | electrical equipment manufacturing foreman/woman |
| 9524 | electrical equipment manufacturing inspector |
| 9527 | electrical equipment manufacturing machine operator |
| 9223 | electrical equipment manufacturing supervisor |
| 9524 | electrical equipment manufacturing utility operator |
| 7333 | electrical equipment mechanic trainee |
| 7371 | electrical equipment operator - derrick |
| 7521 | electrical equipment operator - shovel |
| 9524 | electrical equipment production assembler |
| 6221 | electrical equipment sales representative |
| 2234 | electrical estimator - construction |
| 9525 | electrical fitter |
| 9525 | electrical fitter - industrial electrical equipment |
| 7241 | electrical fixtures installer |
| 7202 | electrical foreman/woman |
| 7522 | electrical forester |
| 9524 | electrical household appliance assembler |
| 9524 | electrical household appliance inspector |
| 6221 | electrical industrial equipment sales representative |
| 2264 | electrical inspector - construction |
| 9524 | electrical inspector - manufacturing |
| 7202 | electrical installation contractor |
| 2264 | electrical installation inspector |
| 7202 | electrical installation supervisor |
| 7333 | electrical instrument mechanic |
| 7333 | electrical instrument repairer |
| 9524 | electrical insulator assembler - small transformer manufacturing |
| 9619 | electrical insulator tester |
| 9527 | electrical lamp-making machine set-up man/woman |
| 9527 | electrical lead acid storage battery filler |
| 9524 | electrical lighting fixture tester |
| 7202 | electrical load tester supervisor |
| 7231 | electrical machinist |
| 2253 | electrical marine draftsperson |
| 7333 | electrical mechanic |
| 7333 | electrical mechanic - electrical utilities |
| 7333 | electrical mechanic (except avionics) |
| 7333 | electrical mechanic apprentice |
| 7612 | electrical mechanic helper |
| 7333 | electrical mechanic trainee |
| 7301 | electrical mechanics foreman/woman |
| 7333 | electrical mechanics group leader |
| 7333 | electrical mechanics lead hand |
| 9524 | electrical mercury switch assembler |
| 9524 | electrical mercury switch assembly tester |
| 9524 | electrical meter assembler |
| 9223 | electrical motor assembly foreman/woman |
| 7333 | electrical motor coil winder-repairer |
| 2133 | electrical network engineer |
| 9525 | electrical panel assembler and wirer - industrial electrical equipment |
| 9527 | electrical plug maker |
| 7202 | electrical power inspector and tester supervisor |
| 7244 | electrical power line lineman/woman |
| 2133 | electrical power scheduling engineer |
| 2241 | electrical power supply system technician |
| 2241 | electrical power system planning technician |
| 2241 | electrical power system technician |
| 2133 | electrical power systems design engineer |
| 9241 | electrical power systems operator |
| 2133 | electrical power systems service engineer |
| 0912 | electrical power transmission operations director |
| 7243 | electrical powerhouse electrician |
| 7243 | electrical powerhouse electrician - electrical power system |
| 2133 | electrical process control engineer |
| 9619 | electrical products labourer |
| 9522 | electrical quality assurance inspector - motor vehicle manufacturing |
| 9524 | electrical relay tester and adjuster |
| 7242 | electrical repairer - crane maintenance |
| 2133 | electrical research engineer |
| 7333 | electrical rewind mechanic |
| 9423 | electrical rubber goods manufacturing tester |
| 2264 | electrical safety inspector |
| 9241 | electrical station operator |
| 9241 | electrical station operator - electrical power systems |

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| 9241 | electrical station power distribution inspector |
| 9527 | electrical storage battery charger operator |
| 9527 | electrical storage battery inspector |
| 9527 | electrical storage battery plate washer and dryer |
| 9527 | electrical storage battery repairer - electrical equipment manufacturing |
| 9527 | electrical storage battery tester |
| 7243 | electrical substation electrician - electrical power system |
| 0714 | electrical superintendent |
| 7202 | electrical supervisor - drilling rig |
| 9524 | electrical switch assembler |
| 9524 | electrical switch maker |
| 9223 | electrical switchgear assembly foreman/woman |
| 9525 | electrical switchgear inspector |
| 9525 | electrical switchgear panel wirer |
| 9525 | electrical switchgear tester |
| 9525 | electrical switchgear wireperson |
| 7202 | electrical systems contractor |
| 2133 | electrical systems planning engineer |
| 2133 | electrical systems protection engineer |
| 2241 | electrical technician |
| 9522 | electrical test technician - motor vehicle manufacturing |
| 9524 | electrical tester, manufacturing |
| 9522 | electrical testing technician - motor vehicle manufacturing |
| 9223 | electrical transformer assembly foreman/woman |
| 7333 | electrical transformer repairer |
| 9524 | electrical wire group assembler - electrical equipment manufacturing |
| 9523 | electrical wire group assembler - electronic equipment manufacturing |
| 9524 | electrical wire insulation tester |
| 9522 | electrical wirer - automotive assembly |
| 7241 | electrical wirer - construction |
| 2264 | electrical wiring inspector - construction |
| 7202 | electrical wiring inspector supervisor |
| 7202 | electrical wiring installation contractor |
| 7241 | electrical wiring installer - construction |
| 9527 | electrical-equipment-impregnating machine operator |
| 7241 | electrician |
| 7243 | electrician - electricity production |
| 7242 | electrician - rail transport |
| 7241 | electrician - troubleshooter |
| 7202 | electrician foreman/woman |
| 7202 | electrician-contractor |
| 7202 | electricians supervisor |
| 2262 | electricity and gas meter inspector |
| 2111 | electricity and magnetism physicist |
| 2241 | electricity distribution network technologist |
| 6221 | electricity sales representative |
| 3217 | electrocardiographic (ECG) technician |
| 3217 | electrocardiographic (ECG) technologist |
| 3217 | electrocardiography technician |
| 3217 | electrocardiography technologist |
| 3217 | electrocardiology technician |
| 3217 | electrocardiology technologist |
| 2134 | electrochemical engineer |
| 9417 | electrochemical machining tool operator |
| 2112 | electrochemist |
| 9613 | electrode cleaner |
| 9527 | electrode installer |
| 9421 | electrode oven operator |
| 3217 | electroencephalograph (EEG) chief technologist |
| 3217 | electroencephalograph (EEG) technician |
| 3217 | electroencephalograph (EEG) technologist |
| 3217 | electroencephalograph technologist |
| 3217 | electroencephalographic instructor |
| 9536 | electroformer |
| 9536 | electrogalvanizer |
| 9536 | electrogalvanizing machine operator |
| 9536 | electroless plater |
| 6562 | electrologist |
| 4021 | electrolysis instructor - vocational institute |
| 6562 | electrolysis operator |
| 6562 | electrolysis technician |
| 9524 | electrolysis tester - electrical equipment manufacturing |
| 9527 | electrolytic anode changer |
| 9613 | electrolytic cell cleaner |
| 9414 | electrolytic cell maker - concrete products |
| 9211 | electrolytic cell operations foreman/woman - primary metal and mineral products processing |
| 9525 | electrolytic cell repairer - industrial electrical equipment |
| 9415 | electrolytic cell tester - primary metal processing |
| 9411 | electrolytic cleaner operator - primary metal processing |
| 9411 | electrolytic descaler - primary metal processing |
| 9417 | electrolytic etcher - metal machining |
| 9611 | electrolytic refiner helper - primary metal and mineral products processing |
| 9231 | electrolytic refinery process operator |
| 9411 | electrolytic tank maintainer - primary metal and mineral products processing |
| 9536 | electrolytic tank tender |
| 2253 | electromechanical draftsperson |
| 7301 | electromechanical foreman/woman |
| 2241 | electromechanical technician |
| 7301 | electromechanical technicians foreman/woman |
| 4021 | electromechanical technology teacher - college level |
| 2241 | electromedical equipment technician |
| 2142 | electrometallurgical engineer |

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| 3217 | electromyography (EMG) chief technologist |
| 3217 | electromyography (EMG) technician |
| 3217 | electromyography (EMG) technologist |
| 3211 | electron microscopy technologist - medical laboratory |
| 9523 | electron tube assembler |
| 9523 | electron tube inspector and tester |
| 9523 | electron tube stem assembly inspector |
| 3217 | electroneurodiagnostic (END) technologist |
| 3217 | electroneurophysiology (ENP) technologist |
| 2244 | electronic accessories repair and overhaul mechanic - avionics |
| 9222 | electronic assembly foreman/woman |
| 9222 | electronic assembly supervisor |
| 0124 | electronic business (e-business) manager |
| 2174 | electronic business (e-business) software developer |
| 9523 | electronic business machine assembler |
| 9523 | electronic cash register assembler |
| 2242 | electronic cash registers servicer |
| 0124 | electronic commerce (e-commerce) manager |
| 2174 | electronic commerce (e-commerce) software developer |
| 7246 | electronic communications technician |
| 9523 | electronic component assembler |
| 9523 | electronic component cleaner |
| 9523 | electronic component insertion colour coder |
| 9523 | electronic component tester - electronic equipment manufacturing |
| 2241 | electronic components inspection technician |
| 0113 | electronic components purchasing chief |
| 0113 | electronic components purchasing director |
| 0113 | electronic components purchasing manager |
| 9523 | electronic components tester |
| 9523 | electronic control assembler |
| 9523 | electronic control operator - electronic equipment manufacturing |
| 2174 | electronic data processing (EDP) applications programmer |
| 2171 | electronic data processing (EDP) auditor |
| 0213 | electronic data processing (EDP) manager |
| 2172 | electronic data processing (EDP) specialist |
| 2172 | electronic data processing (EDP) systems analyst |
| 1422 | electronic data-processing (EDP) equipment operator |
| 6221 | electronic data-processing (EDP) hardware and services sales representative |
| 1211 | electronic data-processing (EDP) unit - supervisor |
| 2253 | electronic draftsperson |
| 9472 | electronic engraver |
| 9523 | electronic equipment assembler - electronic equipment manufacturing |
| 9222 | electronic equipment fabricating and assembling foreman/woman |
| 9222 | electronic equipment fabricating and assembling supervisor |
| 9222 | electronic equipment fabricating and assembling workers foreman/woman |
| 9523 | electronic equipment inspector |
| 2242 | electronic equipment installation and repair supervisor |
| 2241 | electronic equipment maintenance technician |
| 2242 | electronic equipment repairer |
| 6221 | electronic equipment salesperson - wholesale |
| 9523 | electronic equipment subassembler |
| 5222 | electronic field production (EFP) camera operator |
| 1423 | electronic formatter |
| 2242 | electronic game technician - household and business equipment |
| 5241 | electronic games designer |
| 2242 | electronic games repairer |
| 2242 | electronic games technician |
| 9437 | electronic gluing machine tender - woodworking |
| 9222 | electronic inspection foreman/woman - electronics manufacturing |
| 9523 | electronic instrument maker |
| 9523 | electronic keyboard assembler |
| 1423 | electronic letterer operator |
| 2242 | electronic music equipment installer and repairer |
| 5222 | electronic news gathering (ENG) camera operator |
| 5225 | electronic news gathering (ENG) editor |
| 9523 | electronic office machines assembler |
| 9523 | electronic organ assembler |
| 2242 | electronic organ repairer |
| 9523 | electronic peripheral equipment assembler |
| 1423 | electronic photocomposer operator |
| 1423 | electronic phototypesetting machine operator |
| 9472 | electronic prepress technician |
| 9471 | electronic printing machine operator |
| 2241 | electronic production repairer |
| 2242 | electronic products field service technician |
| 9523 | electronic products mounter - electronic equipment manufacturing |
| 0621 | electronic products store manager |
| 2241 | electronic prototype technologist |
| 2242 | electronic service technician apprentice |
| 2242 | electronic service technician supervisor |
| 9471 | electronic sign maker operator |
| 1423 | electronic sign maker operator - typesetting |
| 2241 | electronic systems tester |
| 4021 | electronic technology teacher - college level |
| 9523 | electronic unit inspector - electronic equipment manufacturing |
| 5225 | electronic video graphics operator |

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| 7247 | electronics apprentice - community antenna television |
| 9523 | electronics assembler |
| 2241 | electronics design technologist |
| 2133 | electronics engineer |
| 2241 | electronics engineering design technologist |
| 2241 | electronics engineering technician |
| 2241 | electronics engineering technologist |
| 9523 | electronics equipment assembler |
| 9523 | electronics inspector - electronic equipment manufacturing |
| 9222 | electronics manufacturing foreman/woman |
| 9523 | electronics manufacturing shop worker |
| 9222 | electronics manufacturing supervisor |
| 2241 | electronics manufacturing technician |
| 2241 | electronics manufacturing technologist |
| 2244 | electronics mechanic - avionics |
| 2111 | electronics physicist |
| 2241 | electronics production support technician |
| 2241 | electronics quality control troubleshooter |
| 2133 | electronics research engineer |
| 2111 | electronics research scientist |
| 6421 | electronics salesperson - retail |
| 2241 | electronics technician |
| 2242 | electronics technician - consumer products |
| 2242 | electronics technician - household and business equipment |
| 2133 | electronics test engineer |
| 9523 | electronics tester |
| 9523 | electronics-manufacturing process inspector |
| 9536 | electroplasty equipment operator |
| 9536 | electroplater |
| 9536 | electroplater operator |
| 9226 | electroplating foreman/woman |
| 9226 | electroplating supervisor |
| 9472 | electroplating tank tender |
| 9472 | electrostatic camera operator |
| 9536 | electrostatic machine painter |
| 9536 | electrostatic painter |
| 9536 | electrostatic painting line tender |
| 9536 | electrostatic painting machine operator |
| 9536 | electrostatic painting machine set-up operator |
| 9411 | electrostatic separator tender - primary metal processing |
| 2244 | electrotechnician - avionics |
| 9472 | electrotyper - printing |
| 9472 | electrotyper and platemaker |
| 9619 | elemental worker - packaging |
| 0413 | elementary education director |
| 2111 | elementary particle physicist |
| 2111 | elementary particle theorist |
| 0413 | elementary school education director |
| 5211 | elementary school librarian |
| 0422 | elementary school principal |
| 4032 | elementary school reading clinician |
| 4032 | elementary school substitute teacher |
| 4032 | elementary school supply teacher |
| 4032 | elementary school teacher |
| 4413 | elementary school teacher's aide |
| 4413 | elementary school teacher's assistant |
| 7521 | elevating grader operator |
| 7521 | elevating scraper operator |
| 7318 | elevator adjuster |
| 7318 | elevator builder |
| 7301 | elevator construction foreman/woman |
| 7318 | elevator constructor |
| 7318 | elevator constructor and mechanic apprentice |
| 7612 | elevator constructor helper |
| 7318 | elevator constructor-mechanic |
| 7301 | elevator constructors foreman/woman |
| 7318 | elevator erector |
| 2262 | elevator inspector |
| 7318 | elevator installer |
| 7318 | elevator maintenance mechanic |
| 7318 | elevator mechanic |
| 7318 | elevator mechanic (non-construction) |
| 7318 | elevator mechanic apprentice |
| 7612 | elevator mechanic helper |
| 6742 | elevator operator |
| 7318 | elevator repair mechanic |
| 7318 | elevator repairer |
| 7301 | elevators maintenance service supervisor |
| 4212 | eligibility co-ordinator - social assistance |
| 4212 | eligibility co-ordinator - welfare |
| 8232 | e-line operator - oil field services |
| 4021 | elocution teacher - non-medical |
| 9536 | Elpo tank attendant |
| 3234 | EMA (emergency medical attendant) |
| 6346 | embalmer |
| 6346 | embalmer apprentice |
| 4021 | embalming teacher |
| 2173 | embedded software engineer |
| 9619 | emblem-fusing machine operator - garment manufacturing |
| 9437 | embosser - woodworking |
| 9433 | embossing calender operator - pulp and paper |
| 9441 | embossing calender tender - textile manufacturing |
| 9537 | embossing machine operator - footwear |
| 9437 | embossing machine operator - woodworking |
| 9418 | embossing machine tender - explosives manufacturing |
| 9437 | embossing machine tender - woodworking |
| 9473 | embossing press operator - printing |
| 9473 | embossing press tender - printing |
| 9471 | embossing printer |
| 9473 | embossing/encoding machine tender - printing |
| 9471 | embossing-imprinting machine operator |
| 9619 | embroidered fabric connecting thread cutter tender |

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| **5243** | embroidery designer |
| **9619** | embroidery frame mounter |
| **9619** | embroidery machine charger |
| **9442** | embroidery machine operator |
| **9442** | embroidery machine tender |
| **5245** | embroidery patternmaker |
| **9217** | embroidery supervisor - fabric products |
| **2121** | embryologist |
| **1414** | emergency admitting clerk |
| **3012** | emergency care nurse |
| **7244** | emergency line repairer - electric power systems |
| **4161** | emergency management analyst |
| **0414** | emergency management co-ordinator - government services |
| **0414** | emergency measures manager - government services |
| **3234** | emergency medical assistant |
| **3234** | emergency medical attendant (EMA) |
| **3413** | emergency medical care assistant |
| **3413** | emergency medical care attendant (EMCA) |
| **1525** | emergency medical dispatcher |
| **3413** | emergency medical responder |
| **3234** | emergency medical technician - paramedic/advanced care paramedic (EMT - P/ACP) |
| **3234** | emergency medical technician - primary care paramedic (EMT - PCP) |
| **3234** | emergency medical technician (EMT) |
| **3234** | emergency medical technologist - paramedic (EMT-P) |
| **3111** | emergency medicine physician |
| **3111** | emergency medicine specialist |
| **3012** | emergency nurse |
| **3234** | emergency paramedic |
| **3111** | emergency physician |
| **4161** | emergency preparedness planner |
| **0414** | emergency response co-ordinator - government services |
| **0414** | emergency response services director |
| **7535** | emergency road servicer - motor vehicle |
| **3413** | emergency room aide |
| **3414** | emergency room attendant |
| **0414** | emergency safety manager - government services |
| **7244** | emergency servicer - electric power systems |
| **1525** | emergency services dispatcher |
| **7202** | emergency team foreman/woman - telecommunications |
| **1525** | emergency vehicle dispatcher |
| **3414** | emergency-entry attendant - hospital |
| **3111** | emergentologist |
| **3217** | EMG (electromyography) chief technologist |
| **3217** | EMG (electromyography) technician |
| **3217** | EMG (electromyography) technologist |
| **0112** | employee benefits director |
| **0112** | employee benefits manager |
| **4167** | employee fitness consultant |
| **4167** | employee fitness counsellor |
| **1434** | employee insurance clerk |
| **1121** | employee relations officer |
| **1121** | employee services officer |
| **1121** | employer-employee relations co-ordinator |
| **0112** | employer-employee relations manager |
| **1121** | employment adviser - human resources |
| **0013** | employment agency general manager |
| **0125** | employment agency manager |
| **0411** | employment and insurance programs director - government services |
| **4156** | employment assistance officer |
| **0411** | employment centre director |
| **1415** | employment clerk |
| **4156** | employment consultant |
| **4156** | employment counsellor |
| **4156** | employment counsellor - government services |
| **1121** | employment equity adviser - human resources |
| **4164** | employment equity adviser - social policy |
| **0112** | employment equity chief |
| **4164** | employment equity consultant |
| **1121** | employment equity co-ordinator |
| **0112** | employment equity director - human resources |
| **0112** | employment equity manager - human resources |
| **1121** | employment equity officer |
| **4164** | employment equity policy analyst |
| **4164** | employment equity policy consultant |
| **0411** | employment equity programs director - government services |
| **4156** | employment group counsellor |
| **4164** | employment initiatives co-ordinator |
| **1228** | employment insurance agent |
| **0012** | employment insurance appeals board chairperson |
| **1228** | employment insurance benefit claims investigator |
| **1228** | employment insurance benefits control officer |
| **0012** | employment insurance commissioner |
| **1228** | employment insurance officer |
| **4164** | employment insurance policy analysis officer |
| **4164** | employment insurance policy analyst |
| **0411** | employment insurance regional manager - government services |
| **4164** | employment insurance services adviser |
| **1223** | employment interviewer |
| **0112** | employment manager |
| **0125** | employment office manager |
| **4156** | employment outreach counsellor |
| **4156** | employment outreach program co-ordinator |
| **4156** | employment outreach program counsellor |
| **1121** | employment practices officer |

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| 0411 | employment programs director - government services |
| 4156 | employment services assessment officer |
| 4156 | employment services group counsellor |
| 4156 | employment services officer |
| 4164 | employment standards specialist |
| 1223 | employment supervisor |
| 3234 | EMT (emergency medical technician) |
| 3234 | EMT-P (emergency medical technologist - paramedic) |
| 9537 | enamel applier - jewellery manufacturing |
| 9536 | enamel baker - manufacturing |
| 9413 | enamel burner - glass products manufacturing |
| 9537 | enamel burner - jewellery manufacturing |
| 9537 | enamel decorator - jewellery manufacturing |
| 9536 | enamel dipper |
| 9536 | enamel painter |
| 9536 | enameller |
| 5244 | enameller - arts and crafts |
| 9536 | enameller - industrial painting and coating |
| 9536 | enameller - ship and boat building |
| 9536 | enameller, electrical equipment |
| 9413 | enamelling furnace operator - glass products manufacturing |
| 9536 | enamelling machine tender |
| 5244 | enamellist - arts and crafts |
| 9413 | enamelware paint baker - glass products manufacturing |
| 9527 | encapsulator - electrical equipment manufacturing |
| 9422 | encapsulator - plastic manufacturing |
| 3217 | END (electroneurodiagnostic) technologist |
| 9437 | end bore operator - woodworking |
| 9437 | end trimming and boring machine operator - woodworking |
| 9437 | end-boring machine operator - woodworking |
| 3111 | endocrinologist |
| 3113 | endodontist |
| 0125 | energy asset joint venture manager |
| 1225 | energy asset joint venture representative |
| 1225 | energy asset surface land analyst |
| 2132 | energy conservation engineer |
| 4162 | energy economist |
| 9241 | energy from waste plant operator |
| 0412 | energy market analysis director - government services |
| 4161 | energy policy analyst |
| 0412 | energy policy director - government services |
| 4161 | energy program officer |
| 9241 | energy recovery incinerator plant operator |
| 2263 | enforcement officer - environmental health |
| 2223 | enforcement officer - forestry |
| 5222 | ENG (electronic news gathering) camera operator |
| 5225 | ENG (electronic news gathering) editor |
| 9226 | engine accessories assembly foreman/woman (except aircraft) |
| 9526 | engine accessories inspector |
| 7315 | engine accessories overhaul mechanic |
| 7532 | engine and boiler room crew member - ships |
| 9536 | engine and generator support painter |
| 9226 | engine assembly foreman/woman (except aircraft) |
| 9226 | engine assembly supervisor (except aircraft) |
| 9522 | engine block tester - motor vehicle manufacturing |
| 9522 | engine dress assembler - motor vehicle manufacturing |
| 9221 | engine dress supervisor - motor vehicle manufacturing |
| 9526 | engine dynamometer tester |
| 7612 | engine fitter helper |
| 9524 | engine generator set assembler |
| 9226 | engine guard assembly foreman/woman (except aircraft) |
| 9522 | engine inspector - motor vehicle manufacturing |
| 9522 | engine installer - motor vehicle manufacturing |
| 9417 | engine lathe set-up operator |
| 7321 | engine mechanic - motor vehicle |
| 7301 | engine overhaul foreman/woman |
| 9226 | engine rebuilding shop foreman/woman (except aircraft) |
| 7532 | engine room crew member - ship |
| 7532 | engine room greaser - marine |
| 7532 | engine room greaser - water transport |
| 7532 | engine room mechanical assistant - ships |
| 9522 | engine tester - automobile assembly |
| 9226 | engine testing foreman/woman (except aircraft) |
| 2148 | engineer in agronomy |
| 2274 | engineer officer - water transport |
| 2146 | engineer weight analyst - aircraft design |
| 4011 | engineering and architecture professor - university |
| 1452 | engineering clerk |
| 0211 | engineering delivery chief |
| 2262 | engineering department inspector |
| 2262 | engineering department inspector - local government |
| 0211 | engineering department manager |
| 2253 | engineering design and drafting technologist |
| 2253 | engineering draftsperson |
| 6221 | engineering equipment salesperson |
| 0013 | engineering firm president |
| 2262 | engineering inspector |
| 4011 | engineering instructor - university |
| 0211 | engineering manager |
| 2148 | engineering physicist |
| 4011 | engineering professor - university |
| 2262 | engineering regulatory officer |

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| **0211** | engineering research and development director |
| **0013** | engineering research general manager |
| **2148** | engineering scientist |
| **0211** | engineering service group manager |
| **0211** | engineering service manager |
| **0211** | engineering service project manager |
| **0211** | engineering service quality assurance director |
| **0211** | engineering service quality assurance manager |
| **0211** | engineering service quality control department director |
| **0211** | engineering service quality control manager |
| **0211** | engineering service quality system manager |
| **0211** | engineering service safety service director |
| **0211** | engineering service superintendent |
| **6221** | engineering supplies salesperson |
| **2254** | engineering survey technician |
| **2254** | engineering survey technologist |
| **2241** | engineering technologist - electrical power distribution |
| **2271** | engineering test pilot |
| **0013** | engineering vice-president - financial, communications and other business services |
| **0016** | engineering vice-president - goods production, utilities, transportation and construction |
| **0015** | engineering vice-president - television broadcasting services |
| **0015** | engineering vice-president - trade, broadcasting and other services |
| **7622** | engineer's assistant |
| **4031** | English as a second language (ESL) high school teacher |
| **4032** | English as a second language elementary school teacher |
| **4032** | English as a second language teacher - elementary school |
| **4021** | English as a second language teacher (ESL) - college level |
| **4021** | English as a second language teacher (except elementary, high school or university) |
| **5122** | English editor |
| **4031** | English literature high school teacher |
| **4011** | English professor - university |
| **4021** | English teacher - business college |
| **4021** | English teacher - college level |
| **4032** | English teacher - elementary school |
| **4031** | English teacher - secondary school |
| **9472** | engraver, printing cylinders |
| **9472** | engraver-letterer |
| **7303** | engravers foreman/woman (except photoengravers) - printing |
| **9472** | engraver-transferrer |
| **7303** | engraving foreman/woman (except photoengraving) - printing |
| **9537** | engraving machine operator |
| **9471** | engraving machine operator - printing |
| **9474** | enlarger operator - photographic processing |
| **0911** | enologist |
| **6552** | enquiries clerk |
| **9461** | enrobing machine operator - food and beverage processing |
| **2272** | enroute air traffic controller |
| **9442** | entering machine operator - textiles |
| **2171** | enterprise architect - information technology (IT) |
| **5232** | entertainer |
| **1123** | entertainment agent |
| **5123** | entertainment columnist |
| **5227** | entertainment stage rigger |
| **0513** | entertainment, sports and leisure director |
| **0513** | entertainment, sports and recreation director |
| **2221** | entomological technician |
| **2221** | entomological technologist |
| **2121** | entomologist |
| **6321** | entremetier |
| **1454** | enumerator |
| **9435** | envelope machine operator |
| **9435** | envelope machine tender - paper converting |
| **9435** | envelope maker operator |
| **9435** | envelope-flap-cutting machine setter |
| **9435** | envelope-flap-gumming machine tender - paper converting |
| **9435** | envelope-making machine operator |
| **9435** | envelope-making machine setter - paper converting |
| **1511** | envelope-sealing and envelope-imprinting machine tender |
| **4161** | environmental advisor (except engineer) |
| **2121** | environmental and occupational toxicologist |
| **3413** | environmental assistant - medical |
| **2121** | environmental biologist |
| **9524** | environmental chamber fitter-assembler |
| **2134** | environmental chemical engineer |
| **2112** | environmental chemist |
| **4161** | environmental consultant (except engineer) |
| **4161** | environmental education consultant |
| **2131** | environmental engineer |
| **2161** | environmental epidemiologist |
| **2113** | environmental geologist |
| **0423** | environmental group director |
| **0014** | environmental group executive director |
| **2263** | environmental health and safety technician |
| **2263** | environmental health and safety technologist |
| **2263** | environmental health inspector |
| **2263** | environmental health inspectors supervisor |
| **2263** | environmental health officer |
| **2263** | environmental health officers supervisor |
| **0411** | environmental health services director - government services |

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| **4161** | environmental impact analyst |
| **4161** | environmental issues lobbyist |
| **4161** | environmental lobbyist |
| **3111** | environmental medicine specialist |
| **2263** | environmental officer |
| **2153** | environmental planner |
| **4161** | environmental program co-ordinator |
| **4161** | environmental program development supervisor |
| **4161** | environmental program manager |
| **0212** | environmental science manager |
| **6731** | environmental service worker (ESW) - hospital |
| **3413** | environmental support person - medical |
| **9243** | environmental systems operator - water treatment |
| **2231** | environmental technician |
| **2121** | environmental toxicologist |
| **2112** | enzyme chemist |
| **9462** | enzyme injector - food and beverage processing |
| **2121** | enzymologist |
| **2121** | enzymology biologist |
| **2161** | epidemiologist (except physician and veterinarian) |
| **3212** | epidemiology worker - medical laboratory |
| **9527** | epoxy coater - electrical equipment manufacturing |
| **9527** | epoxy coating machine operator |
| **9527** | epoxy coating machine operator - electrical equipment manufacturing |
| **9527** | epoxy encapsulator - electrical equipment manufacturing |
| **9537** | epoxy-pouring machine operator |
| **9437** | equalizer operator - woodworking |
| **5232** | equilibrist |
| **3114** | equine veterinarian |
| **0131** | equipment chief - telecommunications |
| **9613** | equipment cleaner - chemical processing |
| **2232** | equipment development technician |
| **7246** | equipment installer and repairer - telecommunications |
| **1524** | equipment inventory clerk |
| **0113** | equipment manager |
| **7522** | equipment operator - municipal public work |
| **1113** | equity trader |
| **2131** | erecting engineer |
| **7234** | erection and repair boilermaker |
| **2252** | ergonomic products designer |
| **4161** | ergonomics consultant |
| **4161** | ergonomics specialist |
| **4161** | ergonomist |
| **5232** | erotic dancer |
| **2262** | escalator inspector |
| **7318** | escalator installer |
| **7318** | escalator installer-repairer |
| **7318** | escalator mechanic (non construction) |
| **7318** | escalator repairer |
| **7318** | escalator repairman/woman |
| **4422** | escort - correctional services |
| **3413** | escort - health services |
| **6564** | escort - personal services |
| **6541** | escort - security services |
| **7511** | escort - transportation |
| **0651** | escort agency manager |
| **5125** | escort interpreter |
| **4031** | ESL (English as a second language) high school teacher |
| **4021** | ESL (English as a second language) teacher - college level |
| **5121** | essayist |
| **6531** | establishment guide |
| **1242** | estate administrative assistant |
| **1114** | estate administrator |
| **1114** | estate and trust administrator |
| **1114** | estate executor |
| **1242** | estate secretary |
| **0651** | esthetic services manager |
| **3111** | esthetic surgeon |
| **6562** | esthetician |
| **9472** | etcher - printing |
| **5136** | etcher - visual arts |
| **9523** | etcher and plater, quartz crystals - electronic equipment manufacturing |
| **9619** | etcher helper - printing |
| **9472** | etching corrector |
| **4031** | ethics teacher - secondary school |
| **0014** | ethnic association president |
| **6322** | ethnic food cook |
| **4311** | ethnic relations officer - police |
| **4169** | ethnographer |
| **4169** | ethnologist |
| **5112** | ethnology curator |
| **5112** | ethnology museum curator |
| **2121** | etiologist |
| **6561** | etiquette consultant |
| **4169** | etymologist |
| **4154** | evangelist |
| **9212** | evaporator foreman/woman - chemical processing |
| **9421** | evaporator operator - chemical processing |
| **9461** | evaporator operator - food processing |
| **9432** | evaporator tender - pulp and paper |
| **1226** | event co-ordinator |
| **1123** | event marketing specialist |
| **1226** | event planner |
| **0822** | evergreen grower |
| **5221** | evidence photographer - forensic |
| **4311** | evidence technician - police |
| **3217** | evoked potential (EP) technologist |
| **1221** | exam invigilator - post-secondary institution |
| **1221** | exam proctor - post-secondary institution |
| **1221** | exam supervisor - post-secondary institution |

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| 7302 | excavating and grading labour foreman/woman |
| 7302 | excavating contractor |
| 7312 | excavating equipment mechanic |
| 7302 | excavating equipment operators foreman/woman |
| 7521 | excavating machine operator |
| 7302 | excavating, grading and paving foreman/woman |
| 7302 | excavating, grading and related work foreman/woman |
| 7611 | excavation labourer |
| 7611 | excavation worker |
| 7302 | excavations superintendent |
| 7302 | excavator foreman/woman |
| 7535 | excavator oiler |
| 7521 | excavator operator |
| 9434 | excelsior machine tender |
| 4212 | exceptional-child-care worker (except day care) |
| 7246 | exchange installer and repairer - telecommunications |
| 1434 | exchange rate clerk - financial sector |
| 7246 | exchange tester |
| 7246 | exchange tester - telecommunications |
| 1228 | excise duty agent |
| 1228 | excise duty officer |
| 1228 | excise duty supervisor |
| 1228 | excise examiner |
| 1228 | excise tax collection supervisor |
| 1228 | excise tax collector |
| 1228 | excise tax inspector |
| 1228 | excise tax officers supervisor |
| 0412 | excise tax programs director - government services |
| 0012 | executive administrator - government agency |
| 0012 | executive administrator - government department |
| 1222 | executive assistant |
| 6321 | executive chef |
| 0012 | executive director - emergency preparedness |
| 0013 | executive director - financial, communications and other business services |
| 0016 | executive director - goods production, utilities, transportation and construction |
| 0012 | executive director - government services |
| 0014 | executive director - health, education, social and community services and membership organizations |
| 0014 | executive director - teacher's federation |
| 0015 | executive director - trade, broadcasting and other services |
| 0014 | executive general manager - health, education, social and community services and membership organizations |
| 6312 | executive housekeeper |
| 2271 | executive pilot |
| 0512 | executive producer - video games |
| 0512 | executive producer - visual effects |
| 1223 | executive recruiter |
| 1241 | executive secretary (except legal and medical) |
| 6321 | executive sous-chef |
| 0013 | executive vice-president - financial, communications and other business services |
| 0016 | executive vice-president - goods production, utilities, transportation and construction |
| 0014 | executive vice-president - health, education, social and community services and membership organizations |
| 0015 | executive vice-president - metal and metal products wholesaler |
| 0016 | executive vice-president - railway |
| 0013 | executive vice-president - real estate agency |
| 0015 | executive vice-president - trade, broadcasting and other services |
| 4217 | exegete |
| 6421 | exercise equipment consultant - retail |
| 3144 | exercise physiologist |
| 3144 | exercise therapist |
| 9523 | exhaust and sealing machine operator |
| 9523 | exhaust equipment setter - electronic equipment manufacturing |
| 5243 | exhibit and display designer |
| 5243 | exhibit designer |
| 5243 | exhibit designer - museums and art galleries |
| 5243 | exhibit designers supervisor |
| 5212 | exhibit officer - museum |
| 5212 | exhibit preparator |
| 5212 | exhibit technician |
| 1226 | exhibition co-ordinator |
| 5243 | exhibition designer - museums and art galleries |
| 5232 | exotic dancer |
| 3222 | expanded duty dental hygienist |
| 3222 | expanded duty dental nurse |
| 9416 | expanding machine operator - metal products manufacturing |
| 9423 | expansion joint builder - rubber products manufacturing |
| 9423 | expansion joint finisher - rubber products manufacturing |
| 7514 | expedite driver |
| 1523 | expediter |
| 6711 | expediter - food services |
| 1431 | expenditure clerk |
| 7315 | experimental aircraft mechanic |
| 0212 | experimental farm superintendent |
| 4164 | experimental home economist |
| 7231 | experimental machinist |
| 2111 | experimental physicist |
| 4151 | experimental psychologist |
| 2271 | experimental test pilot |

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| 9423 | experimental tire manufacturing inspector |
| 2145 | exploitation engineer - oil and gas |
| 2145 | exploitation engineer - petroleum |
| 2113 | exploration geologist |
| 2113 | exploration geophysicist |
| 7384 | explosive ordnance detector |
| 9537 | explosive primer inspector |
| 9421 | explosive primers dryhouse attendant - chemical processing |
| 9421 | explosive primers dryhouse tender - chemical processing |
| 1215 | explosives and ammunition magazine foreman/woman |
| 1522 | explosives and ammunition magazine keeper |
| 2134 | explosives engineer |
| 7452 | explosives handler |
| 1215 | explosives magazine foreman/woman |
| 9421 | explosives mixer |
| 9421 | explosives mixer tender |
| 7452 | explosives packer |
| 9232 | explosives senior operator |
| 7511 | explosives truck driver |
| 6411 | export company sales representative |
| 6221 | export company technical sales specialist |
| 1452 | export documentation clerk |
| 0412 | export programs manager - government services |
| 0601 | export sales manager |
| 6411 | export sales representative |
| 1122 | export trade consultant |
| 1521 | export traffic clerk |
| 0731 | export traffic manager |
| 1215 | export traffic supervisor |
| 1521 | export-booking clerk |
| 6411 | exporter |
| 1452 | exports clerk |
| 6552 | express and freight information clerk |
| 1511 | express mail service clerk |
| 1511 | express service clerk - railway |
| 7452 | express service handler (except air transport) |
| 1227 | expropriation officer |
| 3124 | extended class registered nurse - nurse practitioner |
| 8411 | extensible conveyor belt assembler - underground mining |
| 2223 | extension forest ranger |
| 2122 | extension forester |
| 4164 | extension home economist |
| 2223 | extension ranger - forestry |
| 2123 | extension service agronomist |
| 7441 | exterior cladder |
| 7611 | exterior cladder helper |
| 7284 | exterior plasterer |
| 5226 | exterior set manager |
| 5226 | exterior shooting director |
| 9526 | exterior trailer finisher |
| 7441 | exterior trimmer - building |
| 7292 | exterior wall glazier |
| 7205 | exterminating service supervisor |
| 7444 | exterminator |
| 9417 | external cylindrical grinder set-up operator |
| 9417 | external cylindrical-grinder operator |
| 0124 | external relations director |
| 5226 | extra wrangler - motion pictures, broadcasting and performing arts |
| 3214 | extracorporal circulation technologist |
| 3214 | extracorporal technician |
| 3214 | extracorporal technologist |
| 9461 | extract maker - food and beverage processing |
| 2142 | extractive engineer |
| 2115 | extractive metallurgist |
| 2142 | extractive metallurgy engineer |
| 6741 | extractor operator - laundry and dry cleaning |
| 9421 | extractor operator, phenol |
| 9441 | extractor tender - textile manufacturing |
| 4168 | extraparliamentary commission officer |
| 9611 | extruder helper - primary metal processing |
| 9414 | extruder operator - concrete, clay and stone products |
| 9422 | extruder operator - plastic manufacturing |
| 9423 | extruder operator - rubber products manufacturing |
| 9611 | extruder tender - mineral products processing |
| 9211 | extruding foreman/woman - primary metal and mineral products processing |
| 9211 | extruding foreman/woman - primary metal processing |
| 9615 | extruding machine helper - rubber and plastic products manufacturing |
| 9422 | extruding machine operator - plastic manufacturing |
| 9423 | extruding machine operator - rubber products manufacturing |
| 9214 | extruding supervisor - rubber and plastic products manufacturing |
| 9422 | extrusion blow moulding operator |
| 7232 | extrusion die template maker |
| 9423 | extrusion finisher - rubber products manufacturing |
| 9214 | extrusion foreman/woman - rubber and plastic manufacturing |
| 9611 | extrusion helper - primary metal processing |
| 9422 | extrusion machine operator - plastic manufacturing |
| 9411 | extrusion press operator |
| 9214 | extrusion supervisor - rubber and plastic products manufacturing |
| 3111 | eye specialist |
| 9537 | eyeglass frame assembler |
| 9537 | eyeglass frame cutter |

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| 9537 | eyeglass frame inspector and sorter |
| 9537 | eyeglass frame maker |
| 9537 | eyeglass frame polisher |
| 9619 | eyeglass frame trimmer |
| 9537 | eyeglass lens mounter |
| 9537 | eyeglass lenses edger tender - non-prescription |
| 9619 | eyeglass pad cementer |
| 3231 | eyeglasses fitter |
| 3231 | eyeglasses frame fitter |
| 9537 | eyelet-punching machine tender |

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| 5244 | fabric artisan |
| 5244 | fabric artist |
| 9445 | fabric cutter |
| 9445 | fabric cutter - fabric products manufacturing |
| 2233 | fabric design technologist |
| 5243 | fabric designer |
| 9441 | fabric dyer |
| 9447 | fabric examiner |
| 9447 | fabric grader |
| 9537 | fabric hat assembler |
| 9447 | fabric inspector |
| 9521 | fabric installer-repairer - aircraft assembly |
| 9447 | fabric manufacturing inspector |
| 9445 | fabric marker |
| 9446 | fabric mender |
| 9441 | fabric printer |
| 9217 | fabric products embroidery supervisor |
| 9446 | fabric repairer |
| 6421 | fabric salesperson - retail |
| 9447 | fabric sampler |
| 0621 | fabric store manager |
| 9612 | fabrication shop helper - metal products |
| 7237 | fabrication welder |
| 7235 | fabricator - structural metal |
| 9217 | fabric-cutting department foreman/woman |
| 9441 | fabric-printing machine operator |
| 7311 | fabric-shearing machine fixer - textile manufacturing |
| 7311 | fabric-shearing machine setter - textile manufacturing |
| 7311 | fabric-shearing machine setter-fixer - textile manufacturing |
| 8221 | face boss - underground mining |
| 5232 | face painter |
| 8231 | faceman/woman - coal mine |
| 9437 | facer operator - woodworking |
| 6562 | facial treatment operator |
| 5243 | facilities designer |
| 0714 | facilities maintenance head |
| 7246 | facilities man/woman - telecommunications |
| 6721 | facilities porter |
| 7246 | facilities wirer - telecommunications |
| 0714 | facility maintenance manager |
| 0714 | facility management director |
| 0714 | facility operations manager |
| 7246 | facsimile equipment installer |
| 6733 | factory cleaner |
| 7202 | factory electrician supervisor |
| 8261 | factory freezer trawler captain |
| 2274 | factory freezer trawler chief marine engineer |
| 2274 | factory freezer trawler first engineer |
| 2274 | factory freezer trawler second engineer |
| 9446 | factory hat sewer |
| 9619 | factory helper |
| 9619 | factory labourer - manufacturing |
| 9619 | factory labourer, garments |
| 6733 | factory maintenance man/woman |
| 7311 | factory maintenance mechanic |
| 7612 | factory maintenance mechanic helper |
| 7612 | factory or mill maintenance mechanic helper |
| 0911 | factory superintendent |
| 6531 | factory tour guide |
| 0421 | faculty administrator |
| 0421 | faculty of arts dean |
| 0421 | faculty of science dean |
| 4217 | faith healer |
| 8421 | faller |
| 8421 | faller - logging |
| 8421 | faller and bucker - logging |
| 0411 | family and children's services director - government services |
| 4112 | family and estates lawyer |
| 0411 | family benefits director - government services |
| 4412 | family caregiver |
| 4411 | family child care provider |
| 4153 | family counsellor |
| 1227 | family court administrator |
| 4111 | family court judge |
| 1227 | family court registrar |
| 1227 | family court supervisor |
| 3112 | family doctor |
| 4211 | family law clerk |
| 1242 | family law legal assistant |
| 4211 | family law paralegal |
| 3112 | family physician |
| 4153 | family planning counsellor |
| 3112 | family practitioner |
| 0423 | family resources director |
| 4212 | family service worker |
| 0423 | family services area manager |
| 0411 | family services director - government services |
| 4152 | family social worker |
| 4153 | family therapist |
| 4153 | family therapist (FT) |
| 4164 | family violence prevention program adviser |
| 4412 | family worker - home care |
| 9446 | fancy stitch machine operator |

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| 9537 | fancy wire drawer - jewellery manufacturing |
| 6742 | fare box collector |
| 7445 | farebox repairer |
| 7384 | farm blacksmith |
| 8252 | farm boss |
| 8252 | farm business foreman/woman |
| 4162 | farm economist |
| 9526 | farm equipment assembly inspector |
| 7312 | farm equipment mechanic |
| 8431 | farm equipment operator |
| 7301 | farm equipment repair foreman/woman |
| 6221 | farm equipment salesperson |
| 7312 | farm equipment technician |
| 8252 | farm foreman/woman |
| 8431 | farm hand |
| 0621 | farm heavy equipment dealership manager |
| 9526 | farm implement assembler |
| 9226 | farm implements assembly foreman/woman |
| 8252 | farm irrigating system contractor |
| 8431 | farm labourer |
| 7316 | farm machinery builder |
| 8252 | farm machinery custom operator |
| 9526 | farm machinery dismantler |
| 7316 | farm machinery fitter |
| 9226 | farm machinery inspection foreman/woman |
| 7312 | farm machinery mechanic |
| 8431 | farm machinery operator |
| 6221 | farm machinery salesperson |
| 7312 | farm machinery wheelwright |
| 2123 | farm management consultant |
| 0821 | farm manager |
| 8252 | farm operation foreman/woman |
| 8252 | farm operation supervisor |
| 8252 | farm produce grading service contractor |
| 8252 | farm produce packing service contractor |
| 0412 | farm products marketing director - government services |
| 8252 | farm supervisor |
| 7312 | farm tractor mechanic |
| 7312 | farm tractor repairer |
| 1313 | farm underwriter - insurance |
| 3114 | farm veterinarian |
| 8431 | farm worker |
| 8252 | farm workers supervisor |
| 0821 | farmer (except nursery and fish farm) |
| 2123 | farming consultant |
| 7384 | farrier |
| 8431 | farrowing technician |
| 6561 | fashion and wardrobe consultant |
| 6561 | fashion colour analyst |
| 6561 | fashion colour consultant |
| 5123 | fashion columnist |
| 6561 | fashion consultant |
| 5243 | fashion co-ordinator |
| 4021 | fashion design teacher - CEGEP |
| 5243 | fashion designer |
| 5243 | fashion goods co-ordinator |
| 5243 | fashion goods exhibit co-ordinator |
| 5241 | fashion illustrator |
| 5232 | fashion model |
| 5221 | fashion photographer |
| 0421 | fashion school general manager |
| 5231 | fashion show commentator |
| 5243 | fashion stylist |
| 4021 | fashion teacher - college level |
| 5243 | fashion wear designer |
| 7514 | fast food delivery driver |
| 0631 | fast food restaurant manager |
| 9437 | fastener-driver operator - woodworking |
| 6711 | fast-food preparer |
| 6711 | fast-food service attendant |
| 7452 | fats and oils loader |
| 6741 | feather renovator |
| 9619 | feather washer and dryer |
| 5122 | feature editor |
| 5123 | feature reporter |
| 5121 | feature writer |
| 4168 | federal and intergovernmental affairs research officer - government services |
| 4111 | federal court justice |
| 4111 | federal court justice - trial division |
| 4111 | Federal Court of Appeal justice |
| 4111 | federal trial court justice |
| 0414 | federal-provincial relations chief |
| 0414 | federal-provincial relations director |
| 4168 | federal-provincial relations officer |
| 0016 | feed and flour mills general manager |
| 9461 | feed batch mixer - food and beverage processing |
| 7452 | feed mill loader |
| 9461 | feed mill production worker |
| 9461 | feed miller - food and beverage processing |
| 9213 | feed milling foreman/woman |
| 9461 | feed mixer - food and beverage processing |
| 6411 | feed product sales representative |
| 9465 | feed tester - food and beverage processing |
| 9619 | feeder - printing |
| 9614 | feeder - wood processing |
| 9423 | feeder mill operator - rubber products manufacturing |
| 9241 | feeder switchboard apprentice operator - electrical power systems |
| 9241 | feeder switchboard operator - electrical power systems |
| 8431 | feedlot assistant |
| 0821 | feedlot farmer |
| 8252 | feedlot foreman/woman |
| 8252 | feedlot herd attendant |
| 8431 | feedlot worker |
| 8431 | feedyard assistant |
| 8431 | feedyard worker |
| 8421 | feller |
| 8421 | feller - logging |
| 8241 | feller buncher operator |

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| 8241 | feller delimber operator |
| 8241 | feller forwarder operator |
| 7312 | felling equipment mechanic |
| 9441 | felt dryer - textile manufacturing |
| 9616 | felt goods labourer |
| 9537 | felt hat finisher |
| 9217 | felt hat finishing room foreman/woman |
| 9616 | felt press machine tender |
| 9442 | felt press tender - textiles |
| 9442 | felting machine tender |
| 9442 | felt-making machine operator |
| 7441 | fence builder |
| 7205 | fence contractor |
| 7441 | fence erector |
| 7441 | fence installer |
| 5251 | fencer |
| 5254 | fencing instructor |
| 6564 | feng shui practitioner |
| 9461 | fermentation process operator - food and beverage processing |
| 9461 | fermenter - tobacco processing |
| 9461 | fermenter operator |
| 2112 | fermentologist |
| 6722 | ferris wheel operator |
| 0731 | ferry operations manager |
| 0731 | ferry superintendent |
| 7533 | ferry terminal attendant |
| 7533 | ferry terminal worker |
| 2273 | ferryboat captain |
| 7532 | ferryboat deckhand |
| 2273 | ferryboat first mate |
| 2273 | ferryboat master |
| 2273 | ferryboat operator |
| 8252 | fertilization service contractor - agriculture |
| 9421 | fertilizer mixer |
| 1226 | festival organizer |
| 9611 | fettler - clay products manufacturing |
| 9441 | fibre classer |
| 9447 | fibre examiner - textiles |
| 7205 | fibre glass insulation specialists foreman/woman |
| 9447 | fibre grader - textiles |
| 9447 | fibre inspector - textiles |
| 7205 | fibre insulation foreman/woman |
| 7205 | fibre insulators foreman/woman |
| 9441 | fibre mixer |
| 7245 | fibre optic cable splicer |
| 2241 | fibre optics technician |
| 2241 | fibre optics technologist |
| 9537 | fibre strap machine tender |
| 9441 | fibre washer |
| 9421 | fibreglass binder mixer |
| 9531 | fibreglass boat assembler |
| 9227 | fibreglass boat assembly foreman/woman |
| 9227 | fibreglass boat foreman/woman |
| 9531 | fibreglass boat inspector and finisher |
| 9535 | fibreglass filter assembler |
| 9535 | fibreglass inspector |
| 7293 | fibreglass insulation installer |
| 9535 | fibreglass laminator |
| 9535 | fibreglass layup man/woman - plastic manufacturing |
| 9535 | fibreglass layup worker - plastic manufacturing |
| 9422 | fibreglass machine operator - plastic manufacturing |
| 9422 | fibreglass moulder |
| 9611 | fibreglass oven helper |
| 9214 | fibreglass plastics foreman/woman |
| 9214 | fibreglass plastics processing supervisor |
| 9441 | fibreglass roving winder |
| 9415 | fibreglass tester |
| 7311 | fibreglass-forming machine repairer |
| 9422 | fibreglass-spraying machine operator |
| 2147 | fibre-optic network designer |
| 5121 | fiction writer |
| 1312 | field adjuster - insurance |
| 6231 | field agent - insurance |
| 8431 | field and vegetable crop labourer |
| 1111 | field auditor - finances |
| 1228 | field auditor - taxation |
| 9525 | field coil taper - industrial electrical equipment |
| 9232 | field contract operator - oil and gas |
| 8252 | field crop and vegetable workers foreman/woman |
| 8431 | field crop and vegetable-growing worker |
| 8252 | field crop foreman/woman |
| 2221 | field crop technician |
| 2221 | field crop technologist |
| 0911 | field director - manufacturing |
| 7442 | field measurement hand - utilities |
| 7612 | field mechanic helper |
| 2223 | field office supervisor - forestry |
| 9432 | field operator - pulp and paper |
| 5123 | field reporter |
| 4164 | field representative - housing |
| 0601 | field sales manager |
| 6411 | field salesperson - wholesale |
| 2123 | field service adviser - agriculture |
| 2123 | field service agent - agriculture |
| 0132 | field service manager - postal and courier services |
| 2242 | field service technician - household and business equipment |
| 2263 | field supervisor - occupational health and safety |
| 0421 | field teaching co-ordinator |
| 8611 | field-grown crop farm labourer - harvesting |
| 8252 | field-grown crop foreman/woman |
| 8252 | field-grown crop workers foreman/woman |
| 9614 | fifth hand - pulp and paper |
| 9241 | fifth-class stationary engineer |
| 5251 | figure skater |

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| 5252 | figure skating coach |
| 5253 | figure skating evaluator |
| 5253 | figure skating judge |
| 9536 | filament coater |
| 9523 | filament stem inspector - electronic equipment manufacturing |
| 9523 | filament tester - electronic equipment manufacturing |
| 1411 | file and classification clerk |
| 1411 | file clerk |
| 9417 | file cutter - metal machining |
| 9417 | file maker - metal machining |
| 1122 | file manager |
| 9472 | file preparation operator |
| 9537 | filigree finisher |
| 9537 | filigree wire drawer - jewellery manufacturing |
| 1411 | filing clerk |
| 1211 | filing clerks supervisor |
| 1211 | filing service supervisor |
| 1122 | filing systems analyst |
| 8221 | fill foreman/woman |
| 8221 | fill foreman/woman - underground mining |
| 9617 | filler - food and beverage processing |
| 9463 | fillet chopper - fish processing |
| 9463 | filleting machine operator - fish processing |
| 9463 | filleting machine setter - fish processing |
| 9616 | filling carrier - textile processing |
| 9463 | filling machine operator - fish and seafood products |
| 9461 | filling machine setter - food and beverage processing |
| 9461 | filling machine set-up man/woman - food and beverage processing |
| 9527 | filling machine tender - electrical equipment manufacturing |
| 6621 | filling station attendant |
| 0512 | film and video executive producer |
| 9472 | film assembler |
| 5222 | film camera operator |
| 5222 | film cameraman/woman |
| 6421 | film counter clerk |
| 5123 | film critic |
| 9619 | film cutter - film processing |
| 9474 | film developer |
| 7303 | film developers foreman/woman |
| 7303 | film developers supervisor |
| 5131 | film director |
| 5135 | film dubber |
| 5131 | film editor |
| 1411 | film filing clerk |
| 5226 | film location manager |
| 9619 | film mounter - film processing |
| 9619 | film numberer - film processing |
| 7303 | film printers foreman/woman |
| 7303 | film printing foreman/woman |
| 9474 | film printing machine operator |
| 7303 | film printing supervisor |
| 7303 | film processing foreman/woman |
| 7303 | film processing supervisor |
| 9474 | film processing technician |
| 9474 | film processor |
| 7303 | film processors foreman/woman |
| 7303 | film processors supervisor |
| 5131 | film producer |
| 0512 | film production manager |
| 5227 | film projectionist |
| 5227 | film quality inspector |
| 6421 | film rental clerk |
| 9472 | film sizer |
| 9474 | film splicer - photographic processing |
| 9613 | film spooler |
| 9472 | film stripper |
| 9472 | film stripper and layout specialist - printing |
| 9472 | film stripper specialist - printing |
| 9472 | film stripper-assembler |
| 9472 | film stripper-assembler - printing |
| 5225 | film technician |
| 5225 | film technician - motion picture |
| 9617 | film-coating machine tender - tobacco products |
| 9474 | film-developing machine tender |
| 5131 | filmmaker |
| 9474 | film-printing machine tender |
| 9474 | film-processing machine operator |
| 9537 | film-processing unit assembler |
| 1451 | films and recordings library clerk |
| 7303 | filmsetter operators supervisor |
| 7303 | filmsetters supervisor |
| 9537 | filter assembler |
| 9523 | filter assembler - electronic equipment manufacturing |
| 9461 | filter cigarette machine tender |
| 9613 | filter cleaner - chemical processing |
| 9611 | filter leaves cleaner - primary metal and mineral products processing |
| 9232 | filter operator - petroleum, gas and chemical processing |
| 9211 | filter plant foreman/woman - primary metal and mineral products processing |
| 9243 | filter plant operator - water treatment |
| 9421 | filter press tender - chemical processing |
| 9461 | filter rod machine operator - tobacco products |
| 9465 | filter tip inspector - tobacco processing |
| 9611 | filtering attendant - primary metal and mineral products processing |
| 9432 | filterman/woman - pulp and paper |
| 9613 | filtration helper - chemical processing |
| 9243 | filtration plant controller - water treatment |
| 9222 | final assembly and testing foreman/woman - electronic equipment manufacturing |
| 9222 | final assembly and testing supervisor - electronic equipment manufacturing |
| 9536 | final colour production painter |

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| **9532** | final inspector, furniture assembly |
| **9521** | final-assembly inspector - aircraft assembly |
| **9221** | final-assembly supervisor - motor vehicle manufacturing |
| **9523** | final-assembly tester - electronic equipment manufacturing |
| **0114** | finance and administration director |
| **0013** | finance and administration vice-president - financial, communications and other business services |
| **0016** | finance and administration vice-president - goods production, utilities, transportation and construction |
| **0014** | finance and administration vice-president - health, education, social and community services and membership organizations |
| **0015** | finance and administration vice-president - trade, broadcasting and other services |
| **1112** | finance and commercial affairs analyst |
| **0111** | finance and control manager |
| **1114** | finance and credit administrator - international banking |
| **0111** | finance chief |
| **1431** | finance clerk |
| **0111** | finance director |
| **0111** | finance manager |
| **1311** | finance officer |
| **1241** | finance secretary |
| **1311** | finance technician |
| **0013** | finance vice-president - financial, communications and other business services |
| **0015** | finance vice-president - food wholesaling |
| **0016** | finance vice-president - goods production, utilities, transportation and construction |
| **0014** | finance vice-president - health, education, social and community services and membership organizations |
| **0013** | finance vice-president - holding company |
| **0016** | finance vice-president - mining company |
| **0015** | finance vice-president - trade, broadcasting and other services |
| **1111** | financial accountant |
| **1212** | financial accounting supervisor |
| **0111** | financial administrator |
| **1221** | financial aid officer |
| **1112** | financial analysis consultant |
| **1112** | financial analyst |
| **0114** | financial and administrative services chief |
| **1221** | financial assistance co-ordinator - college or university |
| **1221** | financial assistance officer |
| **4212** | financial assistance officer - social assistance |
| **4212** | financial assistance worker - social services |
| **0111** | financial audit manager |
| **1111** | financial auditor |
| **1113** | financial broker |
| **0121** | financial brokerage manager |
| **1434** | financial clerk - financial sector |
| **1435** | financial collector |
| **0111** | financial control manager |
| **1111** | financial control officer |
| **1212** | financial control supervisor |
| **0111** | financial controller |
| **6551** | financial customer service representative |
| **0111** | financial director |
| **4162** | financial economist |
| **5122** | financial editor |
| **0111** | financial evaluations director |
| **1114** | financial institutions examiner |
| **1114** | financial institutions inspector |
| **1431** | financial investigation clerk |
| **1114** | financial investigator |
| **1114** | financial management officer |
| **1114** | financial management officer - pension plan analysis |
| **1114** | financial management officer - program budgeting |
| **0111** | financial manager |
| **4162** | financial market economist |
| **5122** | financial news editor |
| **1311** | financial officer |
| **1114** | financial planner |
| **1114** | financial planner - personal finances |
| **0111** | financial planning and advisory service manager |
| **0111** | financial planning and analysis manager |
| **0111** | financial planning and reporting director |
| **0111** | financial planning and reporting manager |
| **5123** | financial reporter |
| **0111** | financial resources service co-ordinator |
| **6235** | financial sales and service officer |
| **6235** | financial sales and service supervisor |
| **1114** | financial services consultant |
| **1112** | financial services economic analyst |
| **0122** | financial services manager |
| **6235** | financial services officer |
| **6235** | financial services representative |
| **1112** | financial services research associate |
| **6411** | financial services sales representative |
| **6411** | financial services salesperson |
| **2161** | financial statistician |
| **1114** | financial underwriter |
| **0111** | financing and administration director |
| **1123** | financing officer - fundraising |
| **9537** | findings attacher - jewellery manufacturing |
| **5112** | fine art and polychrome conservator |
| **5113** | fine arts archivist |
| **4011** | fine arts professor - university |
| **4021** | fine arts teacher - college level |
| **4031** | fine arts teacher - secondary school |
| **1213** | fingerprint classifier supervisor |
| **1452** | fingerprint clerk |
| **2211** | fingerprint identification technician |

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| 4215 | finger-spelling teacher |
| 7271 | finish carpenter |
| 7204 | finish carpenters foreman/woman |
| 9612 | finish grinder - metal products manufacturing |
| 7204 | finish joiners foreman/woman |
| 5221 | finish photographer |
| 9437 | finish planer operator - woodworking |
| 7284 | finish plasterer |
| 9522 | finished assembled vehicle inspector - motor vehicle manufacturing |
| 9536 | finished enamel sprayman/woman |
| 9523 | finished product inspector - electronic equipment manufacturing |
| 9536 | finished vehicle paint repairman/woman |
| 9414 | finisher - concrete, clay and stone products |
| 9534 | finisher - furniture finishing |
| 6741 | finisher - laundry and dry cleaning |
| 9411 | finisher - primary metal processing |
| 9433 | finisher - pulp and paper |
| 9441 | finisher - textile manufacturing |
| 9418 | finisher, asbestos-covered wires |
| 9537 | finisher, felt hats |
| 9612 | finisher, foundry moulds |
| 9437 | finisher, packing trunk panels - woodworking |
| 9535 | finisher, plastic sheets |
| 9423 | finisher, rubber V-belts |
| 9533 | finisher, wooden golf club heads |
| 9535 | finisher-grinder - plastic manufacturing |
| 9619 | finisher-sander - furniture manufacturing |
| 9619 | finisher-trimmer - footwear manufacturing |
| 9214 | finishing and trimming foreman/woman - rubber and plastic manufacturing |
| 9214 | finishing and trimming supervisor - rubber and plastic products manufacturing |
| 9217 | finishing department foreman/woman - fabric, fur and leather products manufacturing |
| 9217 | finishing department foreman/woman - textile processing |
| 9217 | finishing department supervisor - textile processing |
| 9522 | finishing department technician - motor vehicle manufacturing |
| 9214 | finishing foreman/woman - plastic manufacturing |
| 7303 | finishing foreman/woman - printing |
| 9214 | finishing foreman/woman - rubber manufacturing |
| 9415 | finishing inspector - primary metal and mineral products processing |
| 9447 | finishing inspector - textiles |
| 9534 | finishing machine operator - furniture manufacturing |
| 9473 | finishing machine operator - printing |
| 9441 | finishing machine operator - textile manufacturing |
| 9441 | finishing range operator - textile manufacturing |
| 9536 | finishing roller industrial painter |
| 9224 | finishing room foreman/woman - furniture and fixtures manufacturing |
| 9214 | finishing supervisor - plastic products manufacturing |
| 7303 | finishing supervisor - printing |
| 9214 | finishing supervisor - rubber products manufacturing |
| 9217 | finishing supervisor - textiles |
| 2242 | fire alarm electronics technician |
| 1525 | fire alarm operator |
| 2242 | fire alarm systems installer and servicer |
| 8221 | fire boss - mining |
| 7281 | fire brick layer |
| 7281 | fire brick liner repairer |
| 4312 | fire captain |
| 0432 | fire chief |
| 2223 | fire crew leader - forestry |
| 8422 | fire crewman/woman |
| 8422 | fire crewman/woman - forestry |
| 0432 | fire department assistant deputy chief |
| 0432 | fire department assistant manager |
| 0432 | fire department chief |
| 1525 | fire department dispatcher |
| 0432 | fire department division chief |
| 0432 | fire department duty officer |
| 4312 | fire department platoon chief |
| 7445 | fire equipment repairer |
| 7445 | fire equipment servicer |
| 7612 | fire equipment servicer helper |
| 7445 | fire extinguisher repairer |
| 9423 | fire hose curer rubber |
| 9423 | fire hose maker, rubber |
| 4312 | fire inspector |
| 1312 | fire insurance adjuster |
| 6231 | fire insurance agent |
| 6231 | fire insurance salesman/woman |
| 4312 | fire lieutenant |
| 8422 | fire lookout |
| 0012 | fire marshal |
| 2271 | fire patrol pilot |
| 7252 | fire prevention and automatic suppression systems installer |
| 2141 | fire prevention engineer |
| 4312 | fire prevention officer |
| 7203 | fire protection equipment installer foreman/woman |
| 7293 | fire protection insulator |
| 7252 | fire protection mechanic |
| 7252 | fire protection piping installer |
| 7252 | fire protection piping system installer |
| 2233 | fire protection technician - manufacturing |
| 4312 | fire safety inspection firefighter |
| 7252 | fire sprinkler fitter |

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| 2223 | fire suppression crew foreman/woman - forestry |
| 8422 | fire suppression crewman/woman - forestry |
| 2223 | fire suppression officer - forestry |
| 1313 | fire underwriter - insurance |
| 9536 | firearm burnisher - metal plating |
| 9536 | firearm finisher - metal plating |
| 9227 | firearms assembly foreman/woman |
| 9612 | firearms cleaner - metal products manufacturing |
| 9417 | firearms etcher |
| 2115 | firearms examiner |
| 2115 | firearms expert |
| 9526 | firearms fitter |
| 7231 | firearms machining inspector |
| 7231 | firearms model maker machinist |
| 0431 | firearms section inspector - police |
| 7611 | firebrick layer helper |
| 4312 | firefighter |
| 4312 | firefighter apprentice |
| 4312 | firefighter lieutenant |
| 4312 | firefighter-inspector |
| 0432 | firefighters executive officer |
| 9537 | firefighters' hats assembler |
| 4021 | firefighters instructor |
| 4021 | firefighting instructor |
| 7281 | fireplace brickmason |
| 6732 | fireplace cleaner |
| 7284 | fireproofing applicator |
| 7284 | fireproofing plasterer |
| 7205 | fireproofing plasterer foreman/woman |
| 7205 | fireproofing plastering foreman/woman |
| 7293 | firestopping insulator |
| 9537 | firework assembler |
| 9537 | firework maker |
| 5227 | fireworks handler |
| 3413 | first aid attendant |
| 3413 | first aid attendant - emergency |
| 4216 | first aid instructor |
| 3012 | first aid nurse |
| 0311 | first aid services director |
| 6322 | first cook |
| 5226 | first grip |
| 2273 | first mate - inland waters |
| 0011 | First Nations band chief |
| 0011 | First Nations band council member |
| 0012 | First Nations band manager |
| 4033 | First Nations counsellor - education |
| 0011 | First Nations government leader |
| 4033 | First Nations studies program academic adviser |
| 2271 | first officer - air transport |
| 7381 | first press operator - printing |
| 7381 | first pressman/woman |
| 7381 | first pressman/woman - printing |
| 4168 | first secretary - foreign service |
| 6321 | first sous-chef |
| 9241 | first-class power engineer |
| 9241 | first-class stationary engineer |
| 1431 | fiscal clerk |
| 4162 | fiscal economics analyst |
| 1112 | fiscal projections consultant |
| 6711 | fish and chips preparer |
| 2222 | fish and fish products inspector |
| 2224 | fish and game warden |
| 2224 | fish and wildlife officer |
| 9618 | fish bin worker - fish processing |
| 9463 | fish boner - fish processing |
| 9618 | fish briner - fish processing |
| 9463 | fish broiler - fish processing |
| 9463 | fish by-products processor |
| 9463 | fish cake former - fish processing |
| 9463 | fish cake maker |
| 9463 | fish cake maker - fish processing |
| 9463 | fish cake processor - fish processing |
| 9463 | fish canning machine operator |
| 9463 | fish canning machine operator - fish processing |
| 9213 | fish canning, curing and packing workers foreman/woman |
| 9463 | fish cleaner and cutter |
| 9463 | fish cleaner and cutter - fish processing |
| 9463 | fish cook - fish processing |
| 9618 | fish culler |
| 0823 | fish culture manager |
| 0823 | fish culture operator |
| 2221 | fish culturist |
| 9463 | fish curer - fish processing |
| 9213 | fish curing and canning foreman/woman |
| 9618 | fish curing worker |
| 9463 | fish cutter - fish processing |
| 9463 | fish cutting machine operator - fish processing |
| 9463 | fish cutting machine setter - fish processing |
| 9618 | fish dipper - fish processing |
| 9463 | fish dresser - fish processing |
| 9463 | fish dryer and grinder tender - fish processing |
| 9463 | fish dryer tender - fish processing |
| 9463 | fish egg processor - fish processing |
| 8613 | fish farm helper |
| 0823 | fish farm manager |
| 0823 | fish farm operator |
| 2221 | fish farm technologist |
| 8613 | fish farm worker |
| 0823 | fish farmer |
| 9618 | fish flaker - fish processing |
| 9213 | fish freezing foreman/woman |
| 9213 | fish freezing supervisor |
| 9618 | fish freezing worker - fish processing |
| 9463 | fish fryer - fish processing |
| 9465 | fish grader |
| 8613 | fish hatchery attendant |
| 0823 | fish hatchery manager |

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| 0823 | fish hatchery operator |
| 8613 | fish hatchery tagger |
| 2221 | fish hatchery technician |
| 8613 | fish hatchery worker - aquaculture |
| 9463 | fish header - fish processing |
| 9618 | fish hopper filling worker |
| 9618 | fish icer - fish processing |
| 2222 | fish inspector |
| 2222 | fish inspector-grader |
| 6421 | fish market salesperson |
| 9537 | fish net making machine operator |
| 9463 | fish offal processor - fish processing |
| 9463 | fish oil extractor tender - fish processing |
| 9618 | fish packer - fish processing |
| 9463 | fish paste grinder - fish processing |
| 9618 | fish pickler - fish processing |
| 9618 | fish plant labourer |
| 9463 | fish plant machine operator - fish processing |
| 9463 | fish plant worker |
| 9213 | fish preparation foreman/woman |
| 9463 | fish presser operator - fish processing |
| 9618 | fish processing labourer |
| 9213 | fish processing supervisor |
| 9463 | fish processor |
| 2222 | fish products inspection supervisor |
| 2222 | fish products inspector |
| 9463 | fish products maker - fish processing |
| 9213 | fish reduction foreman/woman |
| 2221 | fish roe technician |
| 9618 | fish salter - fish processing |
| 6421 | fish shop salesperson |
| 9463 | fish skinner operator - fish processing |
| 9463 | fish smoke chamber tender - fish processing |
| 9463 | fish smoker - fish processing |
| 9618 | fish sorter |
| 9463 | fish splitter - fish processing |
| 9463 | fish stick machine tender - fish processing |
| 8613 | fish tagger |
| 9463 | fish trimmer - fish processing |
| 9618 | fish washer - fish processing |
| 9618 | fish weigher |
| 8441 | fishboat deckhand |
| 9463 | fish-cleaning machine tender - fish processing |
| 4161 | fisheries analyst |
| 2224 | fisheries inspector |
| 2224 | fisheries inspector supervisor |
| 2224 | fisheries observer |
| 2113 | fisheries oceanographer |
| 2224 | fisheries officer |
| 2224 | fisheries officer supervisor |
| 4161 | fisheries program officer |
| 2221 | fisheries technician |
| 2221 | fisheries technologist |
| 8262 | fisherman/woman |
| 2221 | fishery bacteriological technician |
| 2221 | fishery bacteriological technologist |

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| 2121 | fishery bacteriologist |
| 2224 | fishery officer |
| 0412 | fishery policy director - government services |
| 2121 | fishery products bacteriologist |
| 0412 | fishery programs manager - government services |
| 9213 | fish-freezing and storage foreman/woman |
| 6322 | fishing and merchant vessel cook |
| 2224 | fishing area supervisor |
| 0632 | fishing camp operator |
| 6532 | fishing guide |
| 5243 | fishing lure designer |
| 8261 | fishing master |
| 0811 | fishing operations manager |
| 9537 | fishing reel assembler |
| 9537 | fishing rod assembler |
| 9537 | fishing rod finisher |
| 5254 | fishing seminar leader |
| 9537 | fishing tackle maker |
| 8232 | fishing tool operator - oil field services |
| 8261 | fishing vessel boatswain |
| 8261 | fishing vessel bo'sun |
| 8261 | fishing vessel captain |
| 8441 | fishing vessel checkerman/woman |
| 2274 | fishing vessel chief engineer |
| 8441 | fishing vessel crewman/woman |
| 8261 | fishing vessel deck officer |
| 8441 | fishing vessel deckhand |
| 2274 | fishing vessel engineer officer |
| 8261 | fishing vessel first mate |
| 8441 | fishing vessel icer |
| 8261 | fishing vessel master |
| 8261 | fishing vessel mate |
| 8261 | fishing vessel navigation officer |
| 8441 | fishing vessel netmender |
| 8441 | fishing vessel rollerman/woman |
| 8261 | fishing vessel second mate |
| 8441 | fishing vessel skiffman/woman |
| 8262 | fishing vessel skipper |
| 1314 | fishing vessels appraiser |
| 6331 | fishmonger |
| 6331 | fishmonger - retail |
| 9537 | fish-net-making machine tender |
| 9463 | fish-processing machine operator |
| 9463 | fish-processing machine tender |
| 9618 | fish-processing plant labourer |
| 0911 | fish-processing plant manager |
| 9463 | fish-processing plant worker |
| 9463 | fish-skinning machine operator - fish processing |
| 0513 | fitness administration director - government |
| 4167 | fitness analyst |
| 5254 | fitness appraiser |
| 0513 | fitness centre manager |
| 0513 | fitness club manager |
| 4167 | fitness consultant |
| 4167 | fitness co-ordinator |

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| 0714 | fitness facility manager |
| 5254 | fitness instructor |
| 5254 | fitness leader |
| 5254 | fitness leader - aerobic fitness |
| 5254 | fitness leader - aquatic fitness |
| 5254 | fitness leader - fitness for older adults |
| 5254 | fitness leader - strength and conditioning |
| 4167 | fitness policy analyst |
| 4167 | fitness program consultant |
| 0513 | fitness programs director |
| 4167 | fitness programs supervisor |
| 5254 | fitness supervisor |
| 7235 | fitter - metal fabrication |
| 7233 | fitter - sheet metal working |
| 7235 | fitter - shipbuilding |
| 7235 | fitter - structural metal fabrication |
| 9522 | fitter and adjuster - motor vehicle manufacturing |
| 7611 | fitter helper - construction |
| 9612 | fitter helper - metal products manufacturing |
| 7235 | fitter lead hand - structural metal and platework |
| 7531 | fitter tracks - railway |
| 9533 | fitter, wooden barrel ends |
| 9533 | fitter, wooden barrel headings |
| 9525 | fitter-assembler - electrical control equipment |
| 9525 | fitter-assembler - industrial electrical equipment |
| 9414 | fitting lathe operator - concrete products |
| 9447 | fitting room inspector - fabric products manufacturing |
| 7237 | fit-up welder |
| 9532 | fixture assembler |
| 2252 | fixture designer |
| 9418 | fixture maker, plating equipment |
| 9537 | flag-making machine operator |
| 7611 | flagman/woman |
| 7611 | flagman/woman - construction |
| 9434 | flaker operator - wood processing |
| 9421 | flaker tender - chemical processing |
| 9461 | flaking roll tender - food and beverage processing |
| 9411 | flame annealing tender - primary metal processing |
| 9612 | flame cutter helper - metal products manufacturing |
| 9416 | flame cutting machine operator - metal fabrication |
| 9416 | flame cutting tracer machine operator - metal fabrication |
| 9416 | flame hardening machine setter |
| 7237 | flame-brazing machine operator |
| 7237 | flame-brazing machine setter |
| 9423 | flap curer, rubber |
| 9537 | flare assembler |
| 9437 | flarer, wood products |
| 7237 | flash butt welder |
| 5241 | flash designer |
| 9533 | flask maker, wood - foundry |
| 9527 | flat battery maker |
| 9527 | flat cell maker - electrical equipment manufacturing |
| 9527 | flat dry battery assembler |
| 9527 | flat dry cell assembler |
| 9527 | flat dry cell machine tender - electrical equipment manufacturing |
| 9442 | flat knitter |
| 9442 | flat knitting machine knitter |
| 9537 | flat optical element maker - non-prescription |
| 7291 | flat roofer |
| 9422 | flatbed press operator - plastic manufacturing |
| 7381 | flat-bed press set-up operator |
| 7511 | flatbed truck driver |
| 9537 | flatware-buffing machine set-up operator |
| 6741 | flatwork finisher - laundry and dry cleaning |
| 6741 | flatwork folder - laundry and dry cleaning |
| 6741 | flatwork ironer - laundry and dry cleaning |
| 9461 | flavour maker - food and beverage processing |
| 9461 | flavour maker - tobacco processing |
| 9461 | flavourer - tobacco processing |
| 9461 | flavouring mixer - tobacco processing |
| 0621 | flea market concession operator |
| 0621 | flea market manager |
| 9441 | fleecer - textile manufacturing |
| 9441 | fleecing machine operator - textile manufacturing |
| 9441 | fleecing machine tender - textile manufacturing |
| 6411 | fleet sales representative |
| 9441 | flesher, hand - hide and pelt processing |
| 9441 | fleshing machine tender - hide and pelt processing |
| 9537 | fletcher - sporting goods manufacturing |
| 9472 | flexible plate engraver |
| 9472 | flexible printing plate mounter |
| 9472 | flexible-plate hand engraver |
| 9435 | flexo-folder operator - paper converting |
| 9472 | flexographic mounter-proofer |
| 7381 | flexographic press adjuster |
| 7381 | flexographic press operator |
| 7381 | flexographic press set-up technician - printing |
| 7381 | flexographic pressman/woman |
| 9472 | flexographic printing cylinder assembler |
| 6523 | flight agent |
| 6522 | flight attendant |
| 4021 | flight attendants instructor |
| 1526 | flight crew scheduler |
| 1215 | flight crew scheduling supervisor |
| 1215 | flight crew supervisor |
| 2272 | flight dispatch assistant |
| 2272 | flight dispatcher |

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| 2271 | flight engineer |
| 2271 | flight engineer - air transport |
| 2271 | flight instructor |
| 7315 | flight line mechanic |
| 0731 | flight operations director |
| 2262 | flight operations inspector |
| 0731 | flight operations manager |
| 2272 | flight operations officer |
| 6522 | flight purser |
| 1526 | flight scheduler |
| 0731 | flight schedulers manager |
| 6522 | flight service director |
| 2272 | flight service specialist (FSS) |
| 2271 | flight simulator instructor |
| 2241 | flight simulator technician |
| 7315 | flight test aircraft mechanic |
| 7315 | flight test inspector |
| 9413 | float chief operator - glass forming |
| 1411 | float clerk |
| 3012 | float nurse |
| 9413 | float operator - glass forming |
| 7371 | floating crane operator |
| 9619 | flocker - garment manufacturing |
| 9441 | flocking machine tender |
| 2263 | flood damage inspector |
| 2264 | flood damage inspector - construction sites |
| 7205 | floor and wall covering installers foreman/woman |
| 9619 | floor attendant - bindery |
| 9619 | floor attendant - printing |
| 6731 | floor cleaner |
| 6622 | floor clerk - retail |
| 6622 | floor clerk - supermarket |
| 7611 | floor coverer helper |
| 7205 | floor coverer-contractor |
| 7205 | floor covering contractor |
| 7205 | floor covering foreman/woman |
| 7295 | floor covering installer |
| 7295 | floor covering installer apprentice |
| 7295 | floor covering mechanic |
| 7205 | floor covering supervisor |
| 0621 | floor coverings and draperies store manager |
| 6421 | floor coverings salesperson - retail |
| 5226 | floor director - broadcasting |
| 5131 | floor director - performing arts |
| 9616 | floor helper - textile processing |
| 9522 | floor inspector - motor vehicle manufacturing |
| 7295 | floor layer |
| 7611 | floor layer's helper |
| 5226 | floor manager - broadcasting |
| 0621 | floor manager - retail |
| 9423 | floor mat press tender - rubber products manufacturing |
| 9412 | floor moulder - foundry |
| 7441 | floor sander |
| 7441 | floor sander and finisher |
| 7611 | floor sander and finisher helper |
| 7441 | floor sander and polisher |
| 7295 | floor sheeting layer |
| 6731 | floor sweeper |
| 7271 | floor systems carpenter |
| 9619 | floor tile edge grinder |
| 7295 | floor tile layer |
| 1113 | floor trader - commodity exchange |
| 9535 | floorcovering inset cutter - plastic manufacturing |
| 7611 | floorcovering installer helper |
| 7611 | floorcovering mechanic helper |
| 9471 | floorcovering printer |
| 8615 | floorhand - offshore drilling rig |
| 8615 | floorhand - oil and gas drilling |
| 8615 | floorhand - service rig |
| 9436 | flooring grader - wood processing |
| 8615 | floorman/woman - offshore drilling rig |
| 8615 | floorman/woman - oil and gas drilling |
| 5244 | floral arrangements designer |
| 5244 | floral designer |
| 2225 | floriculturist |
| 6421 | florist - retail |
| 6421 | florist salesperson |
| 6421 | florist shop salesperson |
| 9611 | flotation cell helper - primary metal and mineral products processing |
| 9411 | flotation cell tender - primary metal processing |
| 9461 | flour blender operator - food and beverage processing |
| 2222 | flour inspector |
| 9213 | flour mill foreman/woman |
| 9461 | flour mill machine operator |
| 0911 | flour mill manager |
| 9461 | flour miller |
| 9213 | flour milling team supervisor |
| 9617 | flour mixer helper |
| 9461 | flour purifier |
| 9213 | flour-and-grain mill foreman/woman |
| 0822 | flower grower |
| 0621 | flower shop manager |
| 0621 | flower store manager |
| 9414 | flowerpot pressman/woman - clay products |
| 9613 | flue cleaner - utilities |
| 9611 | flue dust labourer - primary metal and mineral products processing |
| 2132 | fluid mechanics engineer |
| 2111 | fluid physicist |
| 9461 | flumer - food and beverage processing |
| 9617 | flumer helper - food and beverage processing |
| 9524 | fluorescent lighting fixture assembler |
| 2261 | fluorescent penetrant testing technician |
| 9523 | fluorescent screen former |
| 2261 | fluoroscope tester |
| 9611 | fluorspar flux maker - primary metal processing |

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| 9411 | fluorspar recovery tender |
| 6741 | fluting machine operator - laundry and dry cleaning |
| 9437 | fluting machine operator - woodworking |
| 5133 | flutist |
| 9411 | flux-mixing machine tender - metal processing |
| 1513 | flyer distributor - courier service |
| 7311 | flyer repairer - textile manufacturing |
| 2271 | flying instructor |
| 0421 | flying school manager |
| 9416 | flying shear operator - metal fabrication |
| 5227 | flyman/woman |
| 9535 | foam cushion production repairer - plastic products manufacturing |
| 9535 | foam cushion reinforcer - plastic products manufacturing |
| 7205 | foam insulation foreman/woman |
| 7205 | foam insulators foreman/woman |
| 9527 | foam machine operator - electrical equipment manufacturing |
| 9422 | foam plastic-producing machine operator |
| 9422 | foam plastic-spraying machine operator |
| 9214 | foam products inspection foreman/woman - rubber manufacturing |
| 9214 | foam products inspection supervisor - rubber products manufacturing |
| 9423 | foam rubber goods inspector |
| 9423 | foam rubber machine operator |
| 9423 | foam rubber maker |
| 9423 | foam rubber mattress inspector |
| 9423 | foam rubber mixer |
| 9423 | foam rubber press operator |
| 7293 | foamed insulation applicator |
| 5227 | focus puller |
| 9418 | foil rewinder |
| 9611 | foil roller helper - primary metal processing |
| 9611 | foil separator - primary metal processing |
| 9473 | foil stamper - printing |
| 9537 | foiling machine tender |
| 9473 | foil-stamping platen press operator |
| 9411 | foil-winding machine operator |
| 9411 | foil-winding machine operator - primary metal processing |
| 9423 | folded gasket maker - rubber products manufacturing |
| 6741 | folder - laundry and dry cleaning |
| 9473 | folder operator - printing |
| 9619 | folder, garments - garment manufacturing |
| 9619 | folderman/woman - printing |
| 9619 | folding machine feeder - printing |
| 9537 | folding machine operator - garment manufacturing |
| 9473 | folding machine operator - printing |
| 6741 | folding machine tender - laundry and dry cleaning |
| 9435 | folding machine tender - paper converting |
| 9441 | folding machine tender - textile manufacturing |
| 5134 | folk dance teacher |
| 5134 | folk dancer |
| 5133 | folk singer |
| 5134 | folkloric dance teacher |
| 5134 | folkloric dancer |
| 1524 | food and beverage control clerk - inventory |
| 9213 | food and beverage processing foreman/woman |
| 9465 | food and beverage processing grader |
| 9213 | food and beverage processing supervisor |
| 0911 | food and beverage production manager |
| 6513 | food and beverage server |
| 0631 | food and beverage service manager |
| 6711 | food and beverage service runner assistant |
| 6711 | food and beverage services attendant |
| 3219 | food and nutrition technician - dietetics |
| 3114 | food animal veterinarian |
| 6711 | food assembler - fast food |
| 6311 | food assembly supervisor |
| 2221 | food bacteriological technician |
| 2221 | food bacteriological technologist |
| 2121 | food bacteriologist |
| 6222 | food buyer |
| 2112 | food chemist |
| 6311 | food concession supervisor |
| 6711 | food concession worker |
| 4164 | food consultant - home economics |
| 1524 | food controller - inventory |
| 6711 | food counter attendant |
| 7514 | food delivery driver |
| 6623 | food demonstrator - retail |
| 2263 | food inspector |
| 6711 | food preparer |
| 6421 | food preparer - grocery store |
| 2148 | food processing engineer |
| 9617 | food processing labourer |
| 2211 | food processing quality control technician |
| 2211 | food processing quality control technologist |
| 9213 | food product grader supervisor |
| 9617 | food product sampler |
| 9213 | food product testers supervisor |
| 0911 | food production manager |
| 2121 | food products bacteriologist |
| 2222 | food products inspector |
| 6411 | food products sales representative |
| 2121 | food products scientist |
| 0113 | food purchasing director |
| 0113 | food purchasing manager |
| 2121 | food research scientist |
| 6711 | food runner |
| 0411 | food safety programs manager - government services |
| 4011 | food science professor - university |
| 4011 | food sciences department chairman/woman - university |

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| 4011 | food sciences department chairperson - university |
| 4011 | food sciences department head - university |
| 2121 | food scientist |
| 6711 | food service attendant |
| 6711 | food service counter attendant |
| 7514 | food service driver |
| 6711 | food service helper |
| 6311 | food service supervisor |
| 6711 | food service worker |
| 0631 | food services manager |
| 6411 | food services sales representative |
| 9461 | food slicer - food and beverage processing |
| 6611 | food store cashier |
| 6421 | food store clerk - retail |
| 0621 | food store department manager - retail |
| 0621 | food store manager |
| 6211 | food store supervisor |
| 5243 | food stylist |
| 2211 | food technician |
| 2211 | food technologist |
| 2148 | food technology engineer |
| 9213 | food testing foreman/woman - food and beverage processing |
| 9213 | food testing supervisor |
| 9461 | food-colouring equipment operator |
| 9617 | food-cooling pan tender |
| 9461 | food-flavouring equipment tender |
| 9461 | food-mixing machine tender |
| 9526 | food-packaging equipment assembly inspector |
| 9617 | food-processing equipment cleaner |
| 7316 | food-processing machine fitter |
| 0911 | food-processing plant manager |
| 3125 | foot specialist |
| 5252 | football coach |
| 5251 | football player |
| 5252 | football scout |
| 5252 | football team coach |
| 5251 | footballer |
| 8411 | footman/woman - underground mining |
| 9217 | footwear finishing foreman/woman |
| 9214 | footwear inspection foreman/woman - rubber manufacturing |
| 9214 | footwear inspection supervisor - rubber products manufacturing |
| 9217 | footwear manufacturing foreman/woman |
| 9619 | footwear manufacturing labourer |
| 9615 | footwear moulding press feeder - rubber products manufacturing |
| 9537 | footwear parts trimmer - footwear manufacturing |
| 9422 | footwear presser - plastic manufacturing |
| 6421 | footwear salesperson - retail |
| 9446 | footwear sewer |
| 9615 | footwear sorter - rubber products manufacturing |
| 0821 | forage crop farmer |
| 7331 | forced air furnace installer (except gas) |
| 4211 | foreclosure clerk |
| 4211 | foreclosure paralegal |
| 1242 | foreclosures legal assistant |
| 5123 | foreign affairs reporter |
| 5125 | foreign broadcast translator |
| 5123 | foreign correspondent |
| 1434 | foreign currency accounts adjuster - financial sector |
| 1434 | foreign exchange clerk - financial sector |
| 1113 | foreign exchange dealer |
| 6551 | foreign exchange teller - financial services |
| 1113 | foreign exchange trader |
| 1114 | foreign interbanking arrangements officer |
| 5122 | foreign news broadcasting editor |
| 5123 | foreign news correspondent |
| 5122 | foreign news service editor |
| 5125 | foreign news translator |
| 1434 | foreign remittance clerk - financial sector |
| 4168 | foreign service officer |
| 2273 | foreign-going first mate |
| 2273 | foreign-going second mate |
| 9222 | foreman/woman - electronic equipment manufacturing |
| 6316 | foreman/woman - laundry and dry cleaning |
| 9221 | foreman/woman - motor vehicle manufacturing |
| 9212 | foreman/woman - petroleum, gas and chemical processing |
| 7304 | foreman/woman - railway transport |
| 9217 | foreman/woman - textile processing |
| 7301 | foreman/woman, automotive body repair shop |
| 7302 | foreman/woman, railway maintenance-of-way |
| 9227 | foreman/woman, sash and door assembly |
| 2112 | forensic chemist |
| 2211 | forensic examiner - alcohol |
| 2211 | forensic handwriting expert |
| 2211 | forensic laboratory technician |
| 3111 | forensic pathologist |
| 5221 | forensic photographer |
| 4151 | forensic psychologist |
| 8432 | forest assistant nursery |
| 2121 | forest ecologist |
| 4162 | forest economist |
| 2122 | forest engineer |
| 2223 | forest engineering technician |
| 2223 | forest engineering technologist |
| 2223 | forest extension technician |
| 2223 | forest fire officer |
| 2223 | forest fire ranger |
| 2223 | forest fire technician |
| 8422 | forest firefighter |
| 2223 | forest firefighting crew leader |
| 2223 | forest inventory resource officer |

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| 2122 | forest nursery forester |
| 8432 | forest nursery worker |
| 8211 | forest operations supervisor |
| 2121 | forest pathologist |
| 2223 | forest planning technician |
| 9215 | forest products processing supervisor |
| 7384 | forest products saw filer |
| 2211 | forest products technologist |
| 2223 | forest protection co-ordinator |
| 2224 | forest ranger - wildlife management |
| 2223 | forest regional inventory technician |
| 2223 | forest research technologist |
| 0412 | forest resource analysis chief - government services |
| 2223 | forest resource management technician |
| 2223 | forest resource technician |
| 4162 | forest resources economist |
| 7521 | forest road machine operator |
| 2271 | forest spray pilot |
| 2223 | forest survey technician |
| 2223 | forest technician |
| 8421 | forest worker - logging |
| 2122 | forester |
| 0811 | forestry and logging manager |
| 2223 | forestry conservation and preservation technician |
| 2223 | forestry conservation and preservation technologist |
| 8211 | forestry conservation contractor |
| 2223 | forestry conservation research technician |
| 2223 | forestry conservation research technologist |
| 2223 | forestry conservation technician |
| 2223 | forestry conservation technologist |
| 8422 | forestry conservation worker |
| 2223 | forestry crew co-ordinator |
| 8211 | forestry crew supervisor |
| 8422 | forestry crew worker |
| 8422 | forestry crewman/woman |
| 6221 | forestry equipment sales representative |
| 2223 | forestry extension technician |
| 8211 | forestry foreman/woman |
| 8616 | forestry labourer |
| 6221 | forestry machinery sales representative |
| 0811 | forestry operations manager |
| 2271 | forestry patrol pilot |
| 0412 | forestry policy director - government services |
| 4011 | forestry professor - university |
| 0412 | forestry programs manager - government services |
| 8211 | forestry supervisor |
| 2223 | forestry technician |
| 2223 | forestry technician supervisor |
| 2223 | forestry technologist |
| 8422 | forestry worker |
| 8422 | forestry worker - logging |
| 7311 | forge equipment repairer |
| 9612 | forge helper |
| 9416 | forge manipulator operator |
| 9226 | forge shop foreman/woman - metal products manufacturing |
| 7311 | forge shop machinery mechanic |
| 7311 | forge shop machinery repairer |
| 9612 | forger helper |
| 9226 | forgers foreman/woman - metal products manufacturing |
| 9416 | forging air hammer operator |
| 7232 | forging die finisher |
| 7232 | forging die maker |
| 9416 | forging machine operator |
| 9416 | forging machine setter |
| 9416 | forging machine set-up man/woman |
| 9416 | forging press operator |
| 9416 | forging press tender |
| 9416 | forging roll operator |
| 2261 | forging tester |
| 9226 | forging-machine operator foreman/woman |
| 7334 | forklift mechanic |
| 7452 | forklift operator |
| 7452 | forklift truck operator |
| 7271 | form builder - carpentry |
| 7204 | form builders foreman/woman |
| 7271 | form carpenter |
| 5241 | form layout designer |
| 7611 | form remover - construction |
| 7611 | form stripper - construction |
| 6513 | formal service waiter/waitress |
| 8412 | formation fracturing operator |
| 8412 | formation fracturing operator - oil field services |
| 1423 | formatter operator - typesetting |
| 9418 | former, metal nuts |
| 9414 | forming machine operator - concrete, clay and stone products |
| 9416 | forming machine operator - metal fabrication |
| 9416 | forming press operator - metal fabrication |
| 9416 | forming roll set-up operator - metal fabrication |
| 9416 | forming roll tender - metal fabrication |
| 9527 | forming room operator - electrical equipment manufacturing |
| 9413 | forming-cutting operator - glass products |
| 1452 | forms control clerk |
| 5241 | forms designer |
| 1122 | forms management analysts supervisor |
| 1221 | forms management officer |
| 9615 | formula weigher - rubber and plastic products manufacturing |
| 9421 | formulation blender operator, pesticides |
| 2211 | formulation technician |
| 9421 | formulations blender operator |
| 9421 | formulations blender operator - chemical processing |
| 6564 | fortune teller |
| 9619 | forwarder - printing |

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| **8241** | forwarder operator - logging |
| **5112** | fossil conservator |
| **5112** | fossil curator |
| **5212** | fossil recovery and reparation technician |
| **4411** | foster father |
| **4411** | foster mother |
| **4411** | foster parent |
| **7611** | foundation dampproofer helper |
| **7372** | foundation drill operator |
| **7372** | foundation drill operator - construction |
| **7611** | foundation drill operator helper |
| **2131** | foundation engineer |
| **9447** | foundation garments inspector |
| **2231** | foundation technologist |
| **7611** | foundation waterproofer - construction |
| **2142** | foundry engineer |
| **9211** | foundry foreman/woman |
| **9412** | foundry furnace operator |
| **9611** | foundry helper - primary metal processing |
| **2212** | foundry laboratory technician |
| **9611** | foundry labourer |
| **0911** | foundry manager |
| **9612** | foundry mould finisher |
| **9412** | foundry mouldmaker |
| **9412** | foundry pourer |
| **9412** | foundry sand mixer |
| **9415** | foundry sand tester |
| **9211** | foundry supervisor |
| **9412** | foundry worker |
| **9611** | foundry worker - primary metal processing |
| **9537** | fountain pen inspector |
| **9537** | fountain pen maker |
| **9433** | fourdrinier machine operator - pulp and paper |
| **2274** | fourth engineer - water transport |
| **9433** | fourth hand - pulp and paper |
| **9241** | fourth-class power engineer |
| **9241** | fourth-class stationary engineer |
| **9537** | foxer - footwear |
| **9423** | foxer - rubber goods |
| **8412** | frac driver - oil field services |
| **9232** | fractionator operator |
| **9232** | fractionator operator - petroleum |
| **3414** | fracture room attendant |
| **8222** | fracturing supervisor |
| **8222** | fracturing supervisor - oil field services |
| **9522** | frame assembler - motor vehicle manufacturing |
| **9532** | frame assembler, wood furniture |
| **5212** | frame fitter - museums and art galleries |
| **9418** | frame machine operator, tents |
| **9532** | frame maker - furniture manufacturing |
| **9534** | frame moulding finisher - furniture manufacturing |
| **9534** | frame moulding painter - furniture manufacturing |
| **9441** | frame spinner - textile manufacturing |
| **9437** | frame table operator - woodworking |
| **7246** | frame wirer - telephone |
| **7246** | frameman/woman - telecommunications |
| **6741** | framer - laundry and dry cleaning |
| **5212** | framer - museum and art gallery |
| **7611** | framer helper - construction |
| **7271** | framer-carpenter |
| **7204** | framers foreman/woman |
| **7271** | framing carpenter |
| **6421** | framing sales consultant - retail |
| **5212** | framing technician |
| **9437** | frazer - woodworking |
| **9437** | frazing machine operator - woodworking |
| **1221** | freedom of information officer |
| **5231** | freelance announcer |
| **9423** | freeze tumbler tender - rubber products manufacturing |
| **9461** | freeze-dry food processor |
| **9461** | freezer operator - food and beverage processing |
| **9617** | freezer worker - food and beverage processing |
| **9617** | freezing worker - food and beverage processing |
| **1312** | freight adjuster - insurance |
| **6524** | freight agent - railway |
| **6524** | freight agent (except airline) |
| **7534** | freight attendant - air transport |
| **7622** | freight car checker - railway |
| **6732** | freight car cleaner |
| **7531** | freight car distributor - railway yard |
| **2262** | freight car inspector |
| **7452** | freight car loader |
| **7452** | freight car unloader |
| **7622** | freight car weigher |
| **1521** | freight checker |
| **0731** | freight company manager |
| **0731** | freight division manager |
| **6742** | freight elevator operator |
| **0731** | freight forwarder |
| **1521** | freight forwarding clerk |
| **1215** | freight forwarding logistician |
| **0731** | freight forwarding manager |
| **6411** | freight forwarding services sales representative |
| **1215** | freight forwarding supervisor |
| **1215** | freight forwarding technician |
| **1215** | freight forwarding unit supervisor |
| **7452** | freight handler (except air transport) |
| **7302** | freight handling foreman/woman |
| **7452** | freight loader (except air transport) |
| **7302** | freight loading foreman/woman |
| **1521** | freight receiver |
| **1521** | freight receiver clerk |
| **1521** | freight receiving clerk |
| **6411** | freight sales agent |
| **6411** | freight services sales representative |

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| 1521 | freight shipper |
| 1215 | freight supervisor |
| 7302 | freight terminal foreman/woman |
| 6411 | freight traffic agent |
| 1215 | freight traffic co-ordinator |
| 0731 | freight traffic manager |
| 1215 | freight traffic scheduling supervisor |
| 1215 | freight traffic supervisor |
| 7362 | freight train brakeman/woman |
| 7362 | freight train conductor |
| 7361 | freight train engineer |
| 7304 | freight train road foreman/woman |
| 7511 | freight truck driver |
| 7452 | freight unloader (except air transport) |
| 1431 | freight-rate clerk |
| 1431 | freight-rate revision clerk |
| 4032 | French as a second language elementary school teacher |
| 4032 | French as a second language teacher - elementary school |
| 4031 | French as a second language teacher - secondary school |
| 4021 | French as a second language teacher (except elementary, high school or university) |
| 5122 | French editor |
| 4032 | French immersion teacher - elementary school |
| 4011 | French language professor - university |
| 6332 | French pastry baker - retail |
| 4032 | French teacher - elementary school |
| 4031 | French teacher - secondary school |
| 6532 | freshwater angling guide |
| 9435 | friction paint machine tender - paper converting |
| 6525 | front desk agent |
| 6611 | front desk cashier |
| 1414 | front desk clerk (except hotel) |
| 6525 | front desk hotel clerk |
| 0632 | front desk hotel manager |
| 0632 | front desk manager - accommodation services |
| 7521 | front end loader operator |
| 0621 | front end manager - retail |
| 6211 | front end supervisor - retail |
| 7202 | front line supervisor - power line maintenance |
| 6525 | front office hotel clerk |
| 7362 | front-end brakeman/woman |
| 7321 | front-end mechanic |
| 9461 | frosting maker - food and beverage processing |
| 9461 | frosting mixer - food and beverage processing |
| 9463 | frozen fish cutter - fish processing |
| 9617 | frozen food packer |
| 9617 | frozen meat cutter helper |

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| 9461 | frozen stick novelty maker - food and beverage processing |
| 9461 | frozen-dough-baking machine tender |
| 9617 | fruit and vegetable cleaner - food and beverage processing |
| 9465 | fruit and vegetable grader - food and beverage processing |
| 2222 | fruit and vegetable inspection centre supervisor |
| 9461 | fruit and vegetable machine operator |
| 2222 | fruit and vegetables inspector |
| 6222 | fruit buyer |
| 9461 | fruit cooker - food and beverage processing |
| 8431 | fruit examiner - agriculture |
| 8252 | fruit farm foreman/woman |
| 8431 | fruit farm labourer |
| 0821 | fruit farm operator |
| 8431 | fruit farm worker |
| 8252 | fruit farm workers foreman/woman |
| 0821 | fruit farmer |
| 8431 | fruit farming labourer |
| 9213 | fruit grading foreman/woman |
| 0821 | fruit grower |
| 8611 | fruit harvest worker |
| 8611 | fruit harvester |
| 8611 | fruit harvesting labourer |
| 2222 | fruit inspector |
| 9461 | fruit mixer - food and beverage processing |
| 8611 | fruit or vegetable picker |
| 8611 | fruit packer - farm |
| 9617 | fruit peeler - food and beverage processing |
| 8611 | fruit picker |
| 9617 | fruit preparer - food and beverage processing |
| 9461 | fruit preserver - food and beverage processing |
| 9461 | fruit press tender - food and beverage processing |
| 9461 | fruit presser |
| 0821 | fruit producer |
| 6421 | fruit seller |
| 8611 | fruit sorter - farm |
| 9617 | fruit splitter |
| 8431 | fruit tree pruner |
| 8431 | fruit tree thinner |
| 9213 | fruit-and-vegetable canning, preserving and packing workers foreman/woman |
| 0621 | fruits and vegetables manager - retail |
| 9461 | fry cook - food and beverage processing |
| 8613 | fry marker |
| 8613 | fry marker - fishing |
| 8613 | fry tagger |
| 9461 | fryer operator - food and beverage processing |
| 7321 | fuel and electrical systems technician - motor vehicle |
| 7622 | fuel and sand operator - railway transport |

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| **9537** | fuel filter assembler |
| **9232** | fuel gas treater |
| **7312** | fuel injection unit servicer - diesel |
| **9434** | fuel log maker - wood processing |
| **7511** | fuel oil truck driver |
| **9526** | fuel pump assembler |
| **9537** | fuel rod assembler |
| **9423** | fuel tank builder, rubber |
| **9423** | fuel tank finisher and repairer, rubber |
| **9423** | fuel tank form builder |
| **2211** | fuel technician |
| **7622** | fuel truck driver helper |
| **2134** | fuels engineer |
| **4011** | full professor - university |
| **9441** | fuller - textile manufacturing |
| **9441** | fulling machine operator - textile manufacturing |
| **9441** | fulling mill operator - textile manufacturing |
| **9411** | fume scrubber operator |
| **7444** | fumigator |
| **6722** | fun house operator |
| **1123** | fundraiser |
| **1123** | fundraising campaign consultant |
| **0124** | fundraising campaign manager |
| **1123** | fundraising campaign organizer |
| **1123** | fundraising consultant |
| **1123** | fundraising organizer |
| **7513** | funeral chauffeur |
| **6346** | funeral director |
| **7513** | funeral driver |
| **6742** | funeral home attendant |
| **6346** | funeral home director |
| **6346** | funeral services director |
| **0015** | funeral services general manager |
| **9523** | funnel coater - electronic equipment manufacturing |
| **9441** | fur blender |
| **9537** | fur blocker |
| **9441** | fur blower - textile manufacturing |
| **6222** | fur buyer |
| **6741** | fur cleaner - laundry and dry cleaning |
| **0651** | fur cleaning plant manager |
| **6316** | fur cleaning supervisor |
| **9445** | fur cutter |
| **5243** | fur designer |
| **9441** | fur dresser - hide and pelt processing |
| **9217** | fur dressing foreman/woman |
| **9217** | fur dressing foreman/woman - hide and pelt processing |
| **9217** | fur dressing supervisor |
| **8431** | fur farm worker |
| **0821** | fur farmer |
| **8431** | fur farming worker |
| **9441** | fur floor worker - hide and pelt processing |
| **5245** | fur garment patternmaker |
| **6741** | fur glazer - laundry and dry cleaning |
| **9446** | fur goods sewer |
| **9447** | fur grader |
| **9217** | fur hatmaking department foreman/woman |
| **6741** | fur ironer - laundry and dry cleaning |
| **6741** | fur ironer glazer - laundry and dry cleaning |
| **6741** | fur ironing machine operator - laundry and dry cleaning |
| **6741** | fur lining presser - laundry and dry cleaning |
| **6741** | fur lusterizer - laundry and dry cleaning |
| **9447** | fur matcher - fur products manufacturing |
| **9441** | fur mixer |
| **5245** | fur patternmaker |
| **9441** | fur pelt dresser - hide and pelt processing |
| **9441** | fur plucker - hide and pelt processing |
| **9217** | fur products manufacturing foreman/woman |
| **5245** | fur products patternmaker |
| **8431** | fur ranch labourer |
| **6342** | fur remodeller |
| **6342** | fur repair estimator |
| **6342** | fur repairman/woman |
| **6421** | fur salesperson - retail |
| **9446** | fur sewer |
| **9446** | fur sewing machine operator |
| **9447** | fur sorter |
| **6741** | fur steamer |
| **6742** | fur storage attendant |
| **6342** | fur tailor |
| **6411** | fur trader |
| **8442** | fur trapper |
| **6742** | fur vault custodian |
| **0821** | fur-bearing-animal farmer |
| **6741** | fur-drummer machine operator - laundry and dry cleaning |
| **9241** | furnace boiler operator |
| **7237** | furnace brazer |
| **6732** | furnace cleaner |
| **9611** | furnace cleaner - primary metal and mineral products processing |
| **7253** | furnace converter |
| **9421** | furnace cooler |
| **9524** | furnace electrode inspector |
| **9611** | furnace feeder - primary metal and mineral products processing |
| **9611** | furnace helper |
| **7331** | furnace installer and repairer (except gas) |
| **7301** | furnace installers foreman/woman |
| **7281** | furnace lining bricklayer |
| **9611** | furnace loader - primary metal and mineral products processing |
| **7331** | furnace maintenance mechanic (except gas) |
| **7331** | furnace mechanic (except gas) |
| **9211** | furnace operations foreman/woman - primary metal and mineral products processing |
| **9412** | furnace operator - foundry |
| **9231** | furnace operator - primary metal and mineral products processing |
| **7331** | furnace repairer (except gas) |
| **7612** | furnace repairer helper |

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|---|---|
| **7331** | furnace repairman/woman (except gas) |
| **9611** | furnace skimmer - primary metal and mineral products processing |
| **7237** | furnace solderer |
| **9611** | furnace tapper - primary metal processing |
| **6421** | furniture and appliances salesperson - retail |
| **9532** | furniture and fixtures assembler |
| **9532** | furniture and fixtures assembling inspector |
| **9532** | furniture and fixtures assembly inspector |
| **9532** | furniture and fixtures inspector - furniture manufacturing |
| **9532** | furniture and fixtures manufacturing inspector |
| **9224** | furniture and fixtures manufacturing supervisor |
| **1225** | furniture and furnishings purchaser |
| **5112** | furniture and wooden objects conservator |
| **1314** | furniture appraiser |
| **9532** | furniture assembler |
| **9224** | furniture assembly foreman/woman |
| **9224** | furniture assembly foreman/woman - furniture and fixtures manufacturing |
| **9532** | furniture assembly inspector - furniture manufacturing |
| **9534** | furniture buffer - furniture finishing |
| **7272** | furniture cabinetmaker |
| **9532** | furniture caner |
| **9532** | furniture checker |
| **9224** | furniture components sanding department foreman/woman |
| **9619** | furniture crater |
| **9534** | furniture decorator - furniture finishing and refinishing |
| **2252** | furniture designer |
| **9534** | furniture enameller |
| **0911** | furniture factory manager |
| **9534** | furniture finisher |
| **9534** | furniture finisher and repairer |
| **9224** | furniture finishers foreman/woman - furniture and fixtures manufacturing |
| **9224** | furniture finishers supervisor |
| **9534** | furniture finishing decorator |
| **9224** | furniture finishing foreman/woman - furniture and fixtures manufacturing |
| **9532** | furniture finishing inspector |
| **9534** | furniture finishing varnisher |
| **9532** | furniture fitter-up - furniture manufacturing |
| **9224** | furniture gluers foreman/woman - furniture and fixtures manufacturing |
| **9532** | furniture inspector |
| **9224** | furniture inspectors foreman/woman |
| **7452** | furniture loader-unloader |
| **9619** | furniture manufacturing labourer |
| **7452** | furniture mover |
| **7622** | furniture mover helper |
| **9619** | furniture packer |
| **9619** | furniture panel coverer - furniture assembly |
| **9532** | furniture parts inspector |
| **9534** | furniture polisher - furniture finishing |
| **9534** | furniture refinisher |
| **9534** | furniture refinishing varnisher |
| **9534** | furniture reproducer |
| **6421** | furniture sales consultant - retail |
| **6421** | furniture salesperson |
| **6421** | furniture salesperson - retail |
| **9532** | furniture shipping inspector |
| **9534** | furniture stainer |
| **0621** | furniture store manager |
| **9534** | furniture stripper |
| **6345** | furniture upholsterer |
| **9534** | furniture varnisher |
| **9534** | furniture-finishing machine operator |
| **6342** | furrier |
| **9217** | furriers foreman/woman |
| **9217** | furriers supervisor |
| **9441** | fur-shaving machine tender - hide and pelt processing |
| **9441** | furskin dresser - hide and pelt processing |
| **9421** | fuse maker - chemical processing |
| **9521** | fuselage assembler |
| **9521** | fuselage fitter - aircraft assembly |
| **0121** | futures research manager |
| **0121** | futures research services manager |
| **1113** | futures trader |

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| **5226** | gaffer |
| **6742** | gallery attendant |
| **9536** | galvanizer |
| **9612** | galvanizer helper |
| **9226** | galvanizing foreman/woman |
| **9211** | galvanizing foreman/woman - metal and mineral products processing |
| **9536** | galvanizing machine operator |
| **4153** | gambling addictions counsellor |
| **4153** | gambling addictions therapist |
| **6533** | gambling table operator |
| **9617** | gambreler - food and beverage processing |
| **6722** | game booth operator |
| **6722** | game concession operator |
| **2224** | game officer |
| **5231** | game show host/hostess |
| **8442** | game trapper |
| **2224** | game warden |
| **5121** | game, CD-ROM or Web critic |
| **5251** | gamer - video games |
| **6533** | gaming table dealer |
| **6533** | gaming table operator - casino |
| **6313** | gaming tables supervisor |
| **7531** | gandy dancer - railway |
| **7302** | gang foreman/woman - railway |

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|---|---|
| 9423 | gang press operator - rubber products manufacturing |
| 9437 | gang ripsaw operator - woodworking |
| 9431 | gang sawyer - sawmill |
| 9414 | gang sawyer - stone products manufacturing |
| 9437 | gang sawyer - woodworking |
| 7371 | gantry crane operator |
| 6742 | garage attendant |
| 7441 | garage door installer |
| 6742 | garage jockey |
| 7321 | garage mechanic |
| 7301 | garage supervisor |
| 7301 | garage supervisor - motor vehicles |
| 4423 | garbage collection inspector |
| 7621 | garbage collector |
| 7522 | garbage collector - driver |
| 7621 | garbage receptacle maintainer |
| 7522 | garbage truck driver |
| 7522 | garbage truck driver - public works |
| 7621 | garbage truck loader |
| 6321 | garde-manger chef |
| 0621 | garden centre manager - retail |
| 9526 | garden machinery assembler |
| 6421 | garden supplies sales clerk |
| 9226 | garden tractor assembly foreman/woman |
| 7335 | garden tractor repairer |
| 2225 | gardener |
| 8612 | gardener helper |
| 8612 | gardening helper |
| 6342 | garment alterationist |
| 9619 | garment bagger - garment manufacturing |
| 9446 | garment braid maker - garment manufacturing |
| 9446 | garment braider - garment manufacturing |
| 6741 | garment cleaner - laundry and dry cleaning |
| 5243 | garment designer |
| 6741 | garment dyer - laundry and dry cleaning |
| 9619 | garment factory labourer |
| 9447 | garment final inspector |
| 6342 | garment fitter |
| 9619 | garment folder |
| 9619 | garment fringer - garment manufacturing |
| 9447 | garment inspector |
| 9442 | garment looper |
| 9619 | garment manufacturing final assembler |
| 9217 | garment manufacturing foreman/woman |
| 9447 | garment manufacturing inspector |
| 9445 | garment marker |
| 9619 | garment mender - garment manufacturing |
| 9446 | garment mender - sewing |
| 9619 | garment notcher - garment manufacturing |
| 9619 | garment packer - garment manufacturing |
| 9619 | garment parts sorter - garment manufacturing |
| 5245 | garment patternmaker |
| 9619 | garment plant labourer |
| 6622 | garment price marker |
| 6342 | garment repair seamstress |
| 9619 | garment ripper - garment manufacturing |
| 6342 | garment sample maker |
| 9619 | garment sorter - garment manufacturing |
| 9619 | garment steamer - garment manufacturing |
| 9441 | garment steamer tender |
| 9619 | garment waterproofer - garment manufacturing |
| 6421 | garments and other textile products sales representative - retail |
| 9441 | garnett machine tender - textile manufacturing |
| 7237 | gas and arc welder |
| 7332 | gas appliance repairer |
| 7332 | gas appliance repairer - customer service |
| 7332 | gas appliance servicer |
| 7332 | gas appliance servicer - customer service |
| 6621 | gas bar attendant (except self-service) |
| 7237 | gas brazer |
| 1315 | gas broker |
| 2211 | gas chromatographer |
| 9232 | gas control coordinator |
| 9232 | gas control operator |
| 9232 | gas controller |
| 7253 | gas customer servicer |
| 9232 | gas dispatcher |
| 9212 | gas distribution foreman/woman |
| 0016 | gas distribution general manager |
| 0912 | gas distribution manager |
| 0811 | gas field operations manager |
| 9232 | gas field operator |
| 9232 | gas field production operator |
| 9212 | gas field supervisor |
| 7332 | gas fireplace servicer |
| 7253 | gas fitter |
| 7253 | gas fitter apprentice |
| 9613 | gas fitter helper - utilities |
| 7253 | gas fitter trainee |
| 7253 | gas fitter-installer |
| 7203 | gas fitters foreman/woman |
| 7203 | gas fitters supervisor |
| 9526 | gas furnace assembler |
| 6621 | gas jockey |
| 7442 | gas leak inspector |
| 7442 | gas leak locator |
| 7442 | gas leak surveyor |
| 7203 | gas line fitters foreman/woman |
| 7611 | gas line fuser |
| 9232 | gas liquefaction and regasification plant operator |
| 7253 | gas main fitter |
| 7442 | gas main leak inspector |
| 7442 | gas main leak locator |
| 7442 | gas main leakage tester |
| 7442 | gas main maintenance and repairman/woman |
| 7442 | gas maintenance worker |

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| 9537 | gas meter assembler |
| 7442 | gas meter installer |
| 7445 | gas meter repairer |
| 7612 | gas meter repairer helper |
| 7445 | gas meter servicer |
| 7445 | gas meter tester |
| 7611 | gas pipe fuser |
| 7253 | gas pipe mechanic |
| 7253 | gas pipefitter |
| 7611 | gas pipelayer - construction |
| 9232 | gas pipeline operator |
| 9212 | gas plant foreman/woman |
| 9232 | gas plant operator |
| 9232 | gas pressure regulator |
| 9232 | gas processing compressor operator |
| 9232 | gas processing controller |
| 9232 | gas recovery operator |
| 7442 | gas regulator |
| 1525 | gas service crew dispatcher |
| 7203 | gas service foreman/woman |
| 7203 | gas service supervisor |
| 7253 | gas servicer |
| 6621 | gas station attendant (except self-serve) |
| 0621 | gas station manager |
| 7332 | gas stove repairer |
| 0912 | gas supply manager |
| 0912 | gas supply operations manager |
| 7253 | gas technician |
| 8232 | gas tester - oil field services |
| 9212 | gas transmission supervisor |
| 7315 | gas turbine engine mechanic |
| 7311 | gas turbine machinery industrial mechanic |
| 7311 | gas turbine repairer |
| 9613 | gas utility labourer |
| 7442 | gas utility operator |
| 2132 | gas utilization mechanical engineer |
| 7237 | gas welder |
| 7253 | gas works troubleshooter |
| 9613 | gasket coater |
| 9423 | gasket cutter, rubber |
| 9423 | gasket finisher, rubber |
| 9423 | gasket maker, rubber |
| 9232 | gasoline catalyst operator |
| 9526 | gasoline engine assembler |
| 7335 | gasoline powered lawn mower repairer |
| 9526 | gasoline pump calibrator |
| 9526 | gasoline pump tester |
| 7511 | gasoline truck operator |
| 7335 | gasoline-powered lawn mower mechanic |
| 7335 | gasoline-powered snow blower repairer |
| 7335 | gas-powered small equipment mechanic |
| 7237 | gas-shielded arc welder |
| 7237 | gas-shielded arc welding machine operator |
| 9232 | gas-treating unit operator |
| 3111 | gastroenterologist |
| 6541 | gate attendant - security |
| 6541 | gateman/woman |

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|---|---|
| 7622 | gateman/woman - railway transport |
| 9413 | gatherer - glass products manufacturing |
| 9619 | gathering machine feeder - printing |
| 9473 | gathering machine operator - printing |
| 9473 | gathering machine set-up operator - printing |
| 7232 | gauge maker - tool and die |
| 9465 | gauger - wineries |
| 9523 | gauger, semiconductor material - electronic equipment manufacturing |
| 9537 | gauze pad machine tender |
| 9417 | gear cutter |
| 9417 | gear grinder |
| 9417 | gear hobber set-up operator |
| 7231 | gear inspector-machinist |
| 9417 | gear roller grinder |
| 7231 | gear tester-machinist |
| 9526 | gear train assembler |
| 9526 | gearbox assembler |
| 9526 | gearcase assembler |
| 9526 | gearcase tester |
| 9417 | gear-cutting machine set-up operator |
| 9417 | gear-cutting machine tender |
| 9417 | gear-grinding machine set-up operator |
| 9417 | gear-hobbing machine set-up operator |
| 9417 | gear-hob-milling machine set-up operator |
| 9417 | gear-lapping machine operator |
| 9417 | gear-lapping machine set-up operator |
| 9417 | gear-milling machine operator |
| 9417 | gear-milling machine set-up operator |
| 9417 | gear-rolling machine operator |
| 9417 | gear-shaper operator |
| 9417 | gear-shaving machine set-up operator |
| 9422 | gel coat sprayer operator - plastic manufacturing |
| 9461 | gelatin evaporator filter operator |
| 9461 | gelatin extractor tender |
| 9461 | gelatin powder mixer |
| 9617 | gelatin stock cooker attendant |
| 9461 | gelatin stock maker |
| 9461 | gelatin-blending machine tender |
| 6344 | gem cutter |
| 6344 | gem expert |
| 6344 | gem setter |
| 6344 | gemologist |
| 4169 | genealogist |
| 0433 | general |
| 1111 | general accountant |
| 9523 | general assembler and light machine operator - electronic equipment manufacturing |
| 9221 | general assembly supervisor - motor vehicle manufacturing |
| 7204 | general carpenters foreman/woman |
| 7302 | general construction foreman/woman |
| 7611 | general construction labourer |
| 7302 | general construction supervisor |
| 0711 | general contractor |

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|---|---|
| 4112 | general counsel |
| 2253 | general draftsperson |
| 3012 | general duty nurse |
| 3012 | general duty nurse - psychiatry |
| 4162 | general economist |
| 8431 | general farm worker |
| 7204 | general foreman/woman - building construction |
| 8221 | general foreman/woman - mining |
| 7204 | general foreman/woman - residential construction |
| 9619 | general helper - small electrical appliance assembly |
| 6231 | general insurance representative |
| 9619 | general labourer - electrical equipment assembly |
| 9619 | general labourer - light-fixture assembly |
| 9619 | general labourer - manufacturing |
| 7621 | general labourer - public works |
| 9417 | general machine tool set-up operator |
| 7231 | general machinist |
| 0013 | general manager - financial, communications and other business services |
| 0016 | general manager - goods production, utilities, transportation and construction |
| 0012 | general manager - government services |
| 0014 | general manager - health, education, social and community services and membership organizations |
| 0013 | general manager - real estate management company |
| 1411 | general office clerk |
| 1211 | general office clerks supervisor |
| 1411 | general office worker |
| 3111 | general pathologist |
| 3113 | general practice dentist |
| 3112 | general practice intern |
| 3112 | general practice physician |
| 3112 | general practice resident |
| 3112 | general practitioner (GP) |
| 9522 | general repairer and adjuster - motor vehicle manufacturing |
| 0012 | general secretary - government services |
| 4112 | general solicitor |
| 0621 | general store manager |
| 7204 | general supervisor - building construction |
| 7204 | general supervisor - residential construction |
| 3111 | general surgeon |
| 0731 | general traffic manager - transportation |
| 0731 | general transportation manager |
| 7237 | general welder |
| 7236 | generalist steel structure erector |
| 9241 | generating station main operator |
| 9241 | generating station operator |
| 9241 | generating station operator - electrical power systems |
| 9241 | generating station switchboard operator |
| 9241 | generation substation operator - electrical power systems |
| 7333 | generator repairer |
| 7333 | generator repairman/woman |
| 9525 | generator tester - industrial electrical equipment |
| 4153 | genetic counsellor |
| 2121 | geneticist |
| 3111 | geneticist - medical specialist |
| 0212 | geochemical manager |
| 2211 | geochemical technician |
| 2211 | geochemical technologist |
| 2113 | geochemist |
| 2113 | geodesist |
| 2131 | geodetic engineer |
| 2254 | geodetic survey technician |
| 2254 | geodetic survey technologist |
| 4169 | geographer |
| 2255 | geographic information systems (GIS) technician |
| 2255 | geographic information systems (GIS) technologist |
| 4011 | geography department chairman/woman - university |
| 4011 | geography department chairperson - university |
| 4011 | geography department head - university |
| 4011 | geography professor - university |
| 4031 | geography teacher - secondary school |
| 2253 | geological draftsperson |
| 2144 | geological engineer |
| 2212 | geological engineering technician |
| 2212 | geological engineering technologist |
| 2255 | geological information system technician |
| 2255 | geological information system technologist |
| 0212 | geological manager |
| 2255 | geological mapping technician |
| 2113 | geological oceanographer |
| 2212 | geological prospecting technologist |
| 2212 | geological survey technician |
| 2212 | geological technician |
| 2212 | geological technologist |
| 2113 | geologist |
| 4011 | geology professor - university |
| 2212 | geology technical assistant |
| 2131 | geomatics engineer |
| 2255 | geomatics technician - aerial surveys |
| 2255 | geomatics technician - cartography |
| 2255 | geomatics technician - geographical information systems (GIS) |
| 2254 | geomatics technician - land surveying |
| 2255 | geomatics technician - photogrammetry |
| 2255 | geomatics technician - remote sensing |
| 2255 | geomatics technologist - aerial surveys |
| 2255 | geomatics technologist - cartography |
| 2255 | geomatics technologist - geographical information systems |

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|---|---|
| 2254 | geomatics technologist - land surveying |
| 2255 | geomatics technologist - photogrammetry |
| 2255 | geomatics technologist - remote sensing |
| 4031 | geometry teacher - secondary school |
| 2113 | geomorphologist |
| 2212 | geophysical data technician |
| 2253 | geophysical draftsperson |
| 2144 | geophysical engineer |
| 9523 | geophysical instrument assembler - electronic equipment manufacturing |
| 0212 | geophysical manager |
| 2212 | geophysical observer |
| 2212 | geophysical prospecting technologist |
| 2212 | geophysical survey technician |
| 2212 | geophysical survey technologist |
| 2212 | geophysical technician |
| 2212 | geophysical technologist |
| 2113 | geophysicist |
| 4011 | geophysics professor - university |
| 2144 | geotechnical engineer |
| 2212 | geotechnician |
| 4167 | geriatric activities co-ordinator |
| 3413 | geriatric aide |
| 3012 | geriatric care nurse |
| 3413 | geriatric health care attendant |
| 3111 | geriatric medicine specialist |
| 3012 | geriatric nurse |
| 3011 | geriatric nursing supervisor |
| 4167 | geriatric recreational and leisure activities consultant |
| 4167 | geriatric recreational and leisure activities co-ordinator |
| 4167 | geriatric recreational and leisure activities counsellor |
| 4152 | geriatric social worker |
| 3111 | geriatrician |
| 3111 | geriatrics specialist |
| 3111 | geriatrist |
| 9461 | germ separator - food and beverage processing |
| 9461 | germ separator operator - food and beverage processing |
| 4031 | German teacher - secondary school |
| 4169 | gerontologist |
| 3012 | gerontology nurse |
| 5121 | ghost writer |
| 6421 | gift shop clerk |
| 0621 | gift shop manager |
| 9441 | gig machine operator - textile manufacturing |
| 8262 | gill net fisherman/woman |
| 8441 | gillnetter deckhand |
| 8262 | gillnetter skipper |
| 0821 | ginseng grower |
| 2122 | GIS (geographic information system) forester |
| 2255 | GIS (geographic information system) technician |
| 2255 | GIS (geographic information systems) technologist |
| 2113 | glaciologist |
| 7292 | glass and metal mechanic |
| 9413 | glass bender |
| 9413 | glass beveller |
| 9413 | glass beveller operator |
| 9413 | glass beveller tender |
| 5244 | glass blower |
| 9413 | glass bonding machine operator |
| 9413 | glass breaker |
| 9413 | glass buffer |
| 7384 | glass calibrator |
| 2112 | glass chemist |
| 9413 | glass chipper |
| 6732 | glass cleaner |
| 9415 | glass container tester |
| 9413 | glass cut-off machine operator |
| 7452 | glass cut-off machine unloader |
| 9413 | glass cutter |
| 9413 | glass cutter operator |
| 9413 | glass cutter-framer |
| 9211 | glass cutters supervisor |
| 9211 | glass cutting foreman/woman |
| 9413 | glass drill operator |
| 9413 | glass drill tender |
| 9413 | glass edger |
| 9413 | glass edger operator |
| 9413 | glass edger tender |
| 5244 | glass engraver |
| 9211 | glass engraving foreman/woman |
| 9413 | glass etcher |
| 9441 | glass fibre dyer - textile manufacturing |
| 9413 | glass finisher |
| 9211 | glass forming foreman/woman |
| 9413 | glass forming operator |
| 9413 | glass forming specialist |
| 9211 | glass furnace foreman/woman |
| 9413 | glass furnace operator |
| 9413 | glass furnace setter-operator |
| 9413 | glass furnace set-up operator |
| 9413 | glass grinder |
| 9413 | glass heater |
| 9415 | glass inspector |
| 7205 | glass installation and repair contractor |
| 7205 | glass installation foreman/woman |
| 7292 | glass installer-glazier |
| 7205 | glass installers foreman/woman |
| 9413 | glass laminator |
| 9413 | glass lathe operator |
| 9413 | glass lehr attendant |
| 9413 | glass lehr operator |
| 9413 | glass lehr tender |
| 9413 | glass marker |
| 9413 | glass melter |
| 9413 | glass mixer |
| 9413 | glass mould cleaner |

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|---|---|
| 9413 | glass mould polisher |
| 9413 | glass moulder |
| 5244 | glass novelty maker |
| 9611 | glass packer |
| 5244 | glass painter |
| 9413 | glass polisher |
| 9413 | glass polisher tender |
| 9413 | glass presser |
| 9211 | glass processing foreman/woman |
| 9211 | glass products manufacturing foreman/woman |
| 9415 | glass quality control inspector |
| 7292 | glass setter - construction |
| 7611 | glass setter helper |
| 9413 | glass spin mould machine set-up operator |
| 9413 | glass tank furnace operator |
| 9413 | glass temperer |
| 9415 | glass tester |
| 7292 | glass wall installer |
| 7292 | glass wallcovering installer |
| 9413 | glass windshield autoclave operator |
| 7292 | glass worker - construction |
| 9413 | glass worker - glass products manufacturing |
| 7292 | glass worker apprentice |
| 7611 | glass worker helper - construction |
| 9413 | glass-annealing furnace tender |
| 9413 | glass-blowing lathe operator |
| 9413 | glass-blowing machine operator |
| 9413 | glass-blowing machine setter |
| 9413 | glass-coating line operator |
| 9413 | glass-decorating machine operator |
| 9413 | glass-drawing machine operator |
| 9413 | glass-edging machine feeder |
| 9619 | glassfiber mat roller-packer |
| 9442 | glass-fibre-bonding machine tender |
| 9413 | glass-finishing machine operator |
| 9413 | glass-forming machine operator |
| 9611 | glass-forming machine operator helper |
| 9413 | glass-forming machine setter |
| 9413 | glass-forming machine set-up person |
| 9211 | glass-grinders and glass-polishers foreman/woman |
| 9413 | glass-grinding machine feeder |
| 9413 | glass-pressing and glass-blowing machine operator |
| 9413 | glass-pressing machine operator |
| 9413 | glass-silvering machine operator |
| 9413 | glass-stopper grinder |
| 9413 | glass-tempering furnace operator |
| 9413 | glass-tube-expander operator |
| 9413 | glassware grinder |
| 9413 | glassware-banding machine tender |
| 9413 | glassware-decorating machine operator |
| 9414 | glaze maker - clay products |
| 9414 | glazed products kilnman/woman - clay products |
| 7292 | glazier |
| 7292 | glazier and metal mechanic |
| 7292 | glazier and metal mechanic apprentice |
| 7292 | glazier apprentice |
| 7611 | glazier helper |
| 7205 | glazier supervisor |
| 7205 | glazier-contractor |
| 7205 | glaziers foreman/woman |
| 7205 | glazing contractor |
| 7205 | glazing supervisor |
| 4021 | gliding instructor |
| 9414 | glost kiln operator - clay products |
| 9447 | glove and mitten examiner |
| 9445 | glove cutter |
| 5243 | glove designer |
| 9442 | glove knitter |
| 9619 | glove liner |
| 9217 | glove makers foreman/woman |
| 9217 | glove manufacturing foreman/woman |
| 9619 | glove pairer |
| 9471 | glove printer |
| 9446 | glove stitcher |
| 9619 | glove turner, hand |
| 9617 | glucose transferrer - food and beverage processing |
| 9421 | glue blender |
| 9533 | glue clamp operator - wood products manufacturing |
| 9533 | glue clamp operator, chain carrier - wood products manufacturing |
| 9437 | glue jointer operator - woodworking |
| 9437 | glue machine operator - woodworking |
| 9437 | glue machine tender - woodworking |
| 9437 | glue-bonding machine operator - woodworking |
| 9437 | glue-bonding machine tender - woodworking |
| 9532 | gluer - furniture manufacturing |
| 9537 | gluer - other products manufacturing |
| 9423 | gluer - rubber products manufacturing |
| 9473 | gluing and folding machine operator - printing |
| 9224 | gluing foreman/woman - furniture and fixtures manufacturing |
| 9423 | gluing machine operator - rubber products manufacturing |
| 9617 | gluten settler - food and beverage processing |
| 9232 | glycerine refiner |
| 9232 | glycerine refinery operator |
| 5253 | goal judge |
| 0821 | goat breeder |
| 9526 | go-kart assembler |
| 7334 | go-kart repairer |
| 6722 | go-kart ride attendant |
| 6722 | go-kart track attendant |
| 2212 | gold assayer |
| 9473 | gold leaf stamper |
| 9473 | gold leaf stamper - printing |

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|---|---|
| **2212** | gold prospector |
| **9411** | gold recoverer |
| **5244** | goldsmith |
| **9423** | golf ball assembler |
| **9423** | golf ball maker |
| **9423** | golf ball vulcanizer |
| **9537** | golf club adjuster |
| **9537** | golf club assembler |
| **7445** | golf club head adjuster |
| **9533** | golf club head finisher, wood |
| **9537** | golf club inspector |
| **7445** | golf club repairer |
| **9619** | golf club weigher |
| **6722** | golf course attendant |
| **8612** | golf course labourer |
| **6722** | golf course ranger |
| **6722** | golf course starter |
| **2225** | golf course superintendent |
| **8612** | golf course worker |
| **5254** | golf instructor |
| **5251** | golf player |
| **6722** | golf range attendant |
| **5251** | golfer |
| **6722** | gondola operator |
| **1228** | goods and services tax (GST) collection officer |
| **0412** | goods and services tax (GST) manager |
| **0412** | goods and services tax manager |
| **5133** | gospel singer |
| **4217** | gospel worker |
| **4216** | gourmet cooking instructor - non-vocational |
| **4411** | governess - child care |
| **0413** | government administrator - education |
| **0012** | government agency commissioner |
| **0012** | government agency president |
| **0012** | government agency senior administrator |
| **2123** | government agricultural service district representative |
| **0011** | government leader |
| **4168** | government official |
| **1225** | government supply officer |
| **0011** | governor general |
| **3112** | GP (general practitioner) |
| **7521** | gradall operator |
| **4032** | grade school teacher |
| **7611** | grade tamper - construction |
| **9465** | grader - food and beverage processing |
| **9433** | grader - pulp and paper |
| **9447** | grader - textiles |
| **9436** | grader - wood processing |
| **7316** | grader fitter |
| **7521** | grader operator |
| **9436** | grader tallyman/woman - wood processing |
| **9415** | grader, stonework |
| **9533** | grader, wooden sashes and doors |
| **9433** | graderman/woman - pulp and paper |
| **7312** | grading equipment mechanic |

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|---|---|
| **7302** | grading equipment operators foreman/woman |
| **4012** | graduate assistant - university |
| **3012** | graduate nurse |
| **3012** | graduate nurse - doctor's office |
| **3012** | graduate nurse - occupational health |
| **3012** | graduate nurse - physician's office |
| **3233** | graduate nursing assistant |
| **3012** | graduate private duty nurse |
| **0421** | graduate studies dean |
| **8431** | grafter - orchard |
| **0821** | grain and oilseed farmer |
| **0821** | grain and oilseed grower |
| **0821** | grain and oilseed producer |
| **1113** | grain broker |
| **1113** | grain broker - commodity trading |
| **6411** | grain broker - wholesale |
| **1225** | grain buyer |
| **9617** | grain cleaner helper |
| **9461** | grain cleaner-dryer - food and beverage processing |
| **0012** | grain commissioner |
| **7452** | grain conveyor operator |
| **9461** | grain cooker - food and beverage processing |
| **8252** | grain crop foreman/woman |
| **8252** | grain custom harvester |
| **6411** | grain dealer |
| **6221** | grain elevator agent |
| **6221** | grain elevator district manager |
| **7311** | grain elevator maintenance mechanic |
| **6221** | grain elevator manager |
| **6221** | grain elevator operator |
| **8431** | grain farm labourer |
| **0821** | grain farm manager |
| **0821** | grain farm operator |
| **8431** | grain farm worker |
| **0821** | grain farmer |
| **0821** | grain grower |
| **7452** | grain handler |
| **2222** | grain inspection supervisor |
| **2222** | grain inspector |
| **0412** | grain market analysis chief |
| **0412** | grain market analysis manager |
| **0412** | grain market analysis manager - government services |
| **9461** | grain meal processor - food and beverage processing |
| **6411** | grain merchandiser |
| **9461** | grain miller |
| **9461** | grain mixer - food and beverage processing |
| **0821** | grain producer |
| **1411** | grain quotations board marker |
| **9461** | grain roaster |
| **9461** | grain sample miller |
| **9465** | grain sampler - food and beverage processing |
| **0714** | grain terminal elevator manager |

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|---|---|
| **1113** | grain trader |
| **0121** | grain trading manager |
| **7452** | grain weigher |
| **9461** | grain-cleaning machine operator - food and beverage processing |
| **9534** | grainer - furniture finishing and refinishing |
| **9441** | graining machine operator - tannery |
| **9421** | graining press operator - chemical processing |
| **9213** | grain-milling team supervisor |
| **9461** | grain-processing machine operator |
| **9414** | granite carver |
| **9414** | granite cutter |
| **9414** | granite machine polisher |
| **9414** | granite products polisher |
| **7283** | granite setter |
| **4154** | granthi |
| **9412** | granular aluminum caster - foundry |
| **9461** | granulating machine tender - tobacco processing |
| **9461** | granulator - tobacco processing |
| **9421** | granulator machine operator |
| **9421** | granulator machine operator - chemical processing |
| **9411** | granulator operator - phosphate |
| **9461** | granulator tender - food and beverage processing |
| **0821** | grape grower |
| **0821** | grape producer |
| **5241** | graphic artist |
| **5223** | graphic arts assembler |
| **9472** | graphic arts camera operator |
| **5223** | graphic arts copy stylist |
| **6221** | graphic arts equipment sales representative |
| **5223** | graphic arts renderer |
| **5241** | graphic arts room supervisor |
| **6411** | graphic arts sales representative |
| **4021** | graphic arts teacher |
| **5223** | graphic arts technician |
| **5241** | graphic design and illustration animator |
| **0124** | graphic design firm manager |
| **4021** | graphic design instructor |
| **6411** | graphic design sales representative |
| **5241** | graphic designer |
| **5241** | graphic designer - multimedia |
| **5241** | graphic designer - multimedia, interactive or new media |
| **5241** | graphic designer and layout artist |
| **2174** | graphical user interface (GUI) designer |
| **2174** | graphical user interface (GUI) developer |
| **5223** | graphics technician |
| **4169** | graphoanalyst |
| **4169** | graphologist |
| **8241** | grapple loader operator - logging |
| **8241** | grapple operator - logging |
| **8421** | grapple skidder operator |
| **8211** | grapple yarder hook tender |
| **8241** | grapple yarder operator - logging |
| **8612** | grass cutter |
| **9461** | grated cheese maker |
| **8612** | grave digger |
| **9414** | grave marker cutter - stone products |
| **9415** | gravel grader - mineral products processing |
| **7511** | gravel hauler |
| **7291** | gravel roofer |
| **9611** | gravel screener |
| **7511** | gravel truck driver |
| **2212** | gravity data technician |
| **8615** | gravity prospecting observer helper |
| **7381** | gravure press operator |
| **7303** | gravure press operators foreman/woman |
| **7381** | gravure pressman/woman |
| **9472** | gravure printer - prepress |
| **7381** | gravure printer - printing |
| **7303** | gravure printers foreman/woman |
| **7381** | gravure printing press operator |
| **7381** | gravure proof press operator - printing |
| **7381** | gravure proof puller - printing |
| **7381** | gravure proof wallpaper puller |
| **9232** | grease maker |
| **7535** | greaser |
| **4031** | Greek teacher - secondary school |
| **5242** | green design consultant - interior design |
| **9436** | green lumber grader |
| **9614** | green sorter - wood processing |
| **9423** | green tire inspector |
| **9423** | green tire lubricator |
| **9423** | green tire repairer |
| **9614** | green wood chainman/woman - wood processing |
| **8255** | greenhouse foreman/woman |
| **7205** | greenhouse installers foreman/woman |
| **0822** | greenhouse manager |
| **0822** | greenhouse operator |
| **8255** | greenhouse supervisor |
| **8432** | greenhouse worker |
| **8255** | greenhouse worker crew chief |
| **2225** | greens superintendent |
| **8612** | greens worker |
| **9614** | greensaw offbearer - wood processing |
| **2225** | greenskeeper |
| **8612** | greenskeeper helper |
| **9414** | greenware driller - clay products |
| **9414** | greenware finisher - clay products |
| **9414** | greenware turner operator - clay products |
| **6421** | greeting cards sales clerk |
| **9447** | greige-cloth examiner |
| **9412** | grid caster - foundry |
| **9523** | grid gauger - electronic equipment manufacturing |
| **9524** | grid inspector - electrical equipment manufacturing |
| **9523** | grid inspector - electronic equipment manufacturing |

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|---|---|
| 9418 | grid machine job setter |
| 9523 | grid operator - electronic equipment manufacturing |
| 9412 | grid-caster operator - foundry |
| 4153 | grief counsellor |
| 6322 | grill cook |
| 9414 | grinder - concrete, clay and stone products |
| 9612 | grinder - metal products manufacturing |
| 9411 | grinder and classifier tender |
| 9612 | grinder and sharpener - metal products manufacturing |
| 9614 | grinder feeder - pulp and paper |
| 9432 | grinder loader - pulp and paper |
| 9422 | grinder operator - plastic manufacturing |
| 9432 | grinder operator - pulp and paper |
| 9423 | grinder operator - rubber products manufacturing |
| 9417 | grinder set-up operator - metal machining |
| 9421 | grinder tender - chemical processing |
| 9414 | grinder, rubber abrasive wheels |
| 9612 | grinder-chipper - metal products manufacturing |
| 9612 | grinder-deburrer |
| 9612 | grinder-deburrer - metal products manufacturing |
| 9612 | grinder-dresser - metal products manufacturing |
| 9432 | grinderman/woman - pulp and paper |
| 9612 | grinder-trimmer - metal products manufacturing |
| 9411 | grinding and flotation tender |
| 9212 | grinding and packing foreman/woman - chemical processing |
| 9414 | grinding stone sharpener |
| 9414 | grinding wheel dresser |
| 5227 | grip |
| 9461 | grist mill operator - food and beverage processing |
| 8614 | grizzly worker - underground mining |
| 0621 | grocer |
| 7514 | groceries deliverer |
| 7511 | groceries long haul driver |
| 6622 | grocery clerk |
| 6211 | grocery clerk supervisor |
| 6622 | grocery packer |
| 6332 | grocery store baker |
| 6331 | grocery store butcher |
| 6611 | grocery store cashier |
| 6611 | groceteria cashier |
| 8431 | groom - farm |
| 6563 | groom - horse race track |
| 9413 | groove grinder - glass |
| 7521 | groove-cutting machine operator |
| 9437 | groover - woodworking |
| 9619 | groover and turner - shoe manufacturing |
| 9437 | groover operator - woodworking |
| 7521 | grooving machine operator - heavy equipment |
| 9437 | grooving machine operator - woodworking |
| 9417 | grooving machine set-up operator - metal machining |
| 7301 | ground crew foreman/woman - aircraft maintenance |
| 7612 | ground hand - telecommunications |
| 4021 | ground school instructor |
| 7305 | ground transit inspector - public transit |
| 7612 | ground worker - power lines |
| 7612 | ground worker - telecommunications |
| 8612 | grounds maintainer |
| 8255 | grounds maintenance contractor |
| 8612 | grounds maintenance labourer |
| 8255 | grounds maintenance park supervisor |
| 8255 | grounds maintenance supervisor |
| 8612 | grounds maintenance worker |
| 8612 | groundskeeper |
| 8255 | groundskeeper supervisor |
| 8255 | groundskeeping foreman/woman |
| 8255 | groundskeeping supervisor |
| 8255 | groundskeeping supervisor - cemetery |
| 8612 | groundsman/woman |
| 8255 | groundsman/woman supervisor |
| 8612 | groundsperson - campground |
| 8255 | groundsperson supervisor - campground |
| 2113 | groundwater geologist |
| 2212 | groundwater technologist |
| 0111 | group accounting manager |
| 5134 | group dance teacher |
| 5134 | group dancer |
| 4153 | group home counsellor |
| 0423 | group home manager |
| 4212 | group home operator |
| 4212 | group home worker |
| 1434 | group insurance clerk |
| 6231 | group insurance representative |
| 9416 | group leader, forging machine operator |
| 9524 | group leader, large electrical appliance assembly |
| 9526 | group leader, mechanical assemblers |
| 9524 | group leader, small electrical appliance assembly |
| 1312 | group life claims examiner - insurance |
| 4152 | group social worker |
| 6411 | group travel sales representative |
| 1313 | group underwriter |
| 1313 | group underwriter - insurance |
| 7611 | grout machine operator |
| 7611 | grout pump operator |
| 7611 | grouter |
| 2123 | growers' advisor |
| 1228 | GST (goods and services tax) collection officer |
| 0412 | GST (goods and services tax) manager |
| 6731 | guest home cleaner |

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| 6525 | guest service agent |
| 6533 | guest service representative - casino |
| 6525 | guest service representative - hotel |
| 1414 | guest service representative - spa |
| 6313 | guest service supervisor - casino |
| 6525 | guest services agent - hotel |
| 0632 | guest services manager |
| 4031 | guest teacher - secondary school |
| 0632 | guest-house operator |
| 4033 | guidance counsellor |
| 0423 | guidance director |
| 4033 | guidance service head |
| 0423 | guidance services director |
| 1215 | guide-operator |
| 9473 | guillotine cutter - printing |
| 9473 | guillotine operator - printing |
| 5244 | guitar maker |
| 5133 | guitar player |
| 7445 | guitar repairer |
| 9423 | gum cutter - rubber footwear |
| 9435 | gumming machine tender - paper converting |
| 9461 | gum-sheeting and scoring machine operator - food and beverage processing |
| 7311 | gum-wrapping machine mechanic |
| 9526 | gun assembler |
| 9523 | gun assembler, television pictures tubes |
| 8232 | gun perforator - oil field services |
| 7384 | gun repairer |
| 9526 | gun subassembler |
| 7611 | gunite mixer - construction |
| 7611 | guniter - construction |
| 7384 | gunsmith |
| 9437 | gunstock checkerer |
| 9437 | gunstock fitter - woodworking |
| 9437 | gunstock shaper - woodworking |
| 5251 | gymnast |
| 5252 | gymnastics coach |
| 5254 | gymnastics instructor |
| 5254 | gymnastics teacher |
| 3111 | gynecologist |
| 7284 | gyproc applicator |
| 9411 | gypsum calciner |
| 7284 | gypsum lather |
| 7284 | gypsum plasterboard applicator |
| 9414 | gypsum plasterboard maker |
| 7445 | gyroscope repairer |
| 7445 | gyroscope repairman/woman |

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| 2221 | habitat management technician |
| 9213 | HACCP (hazard analysis critical control point) co-ordinator - food processing |
| 9213 | HACCP co-ordinator |
| 9213 | HACCP co-ordinator - food processing |
| 2221 | hair and fibre forensic examiner |
| 6341 | hair colour technician |
| 9524 | hair dryer assembler |
| 6341 | hair dyer |
| 6562 | hair removal specialist |
| 6562 | hair replacement consultant |
| 6562 | hair replacement technician |
| 6562 | hair weaver |
| 6341 | hair-care specialist |
| 6341 | hairdresser |
| 6341 | hairdresser apprentice |
| 4021 | hairdressing instructor - vocational institute |
| 0651 | hairdressing salon manager |
| 4021 | hairdressing teacher - community college |
| 9537 | hair-rooting machine operator - toy manufacturing |
| 9537 | hairspring truer |
| 0651 | hairstyling salon manager |
| 6341 | hairstyling specialist |
| 6341 | hairstylist |
| 6341 | hairstylist apprentice |
| 9472 | halftone camera operator - printing |
| 0423 | halfway house manager |
| 4212 | halfway house supervisor |
| 4212 | halfway house worker |
| 6731 | hall cleaner |
| 0422 | hall principal - secondary school |
| 9461 | ham curer |
| 9213 | ham curing foreman/woman |
| 9462 | ham cutter |
| 9465 | ham grader |
| 9462 | ham sawyer - meat packing plant |
| 9416 | hammer driver - forging |
| 9414 | hammer mill tender - concrete, clay and stone products |
| 9461 | hammer mill tender - food and beverage processing |
| 9416 | hammer operator - metal forging |
| 7521 | hammer operator, pile driving |
| 5251 | hammer thrower |
| 7384 | hammersmith |
| 7237 | hand arc welder |
| 5244 | hand artificial flower maker |
| 6541 | hand baggage inspector |
| 7452 | hand bagger - material handling |
| 9537 | hand bag-maker |
| 5244 | hand beadworker |
| 9537 | hand blocker, hats |
| 9423 | hand bonder - rubber footwear manufacturing |
| 5244 | hand bookbinder |
| 9414 | hand brick moulder - clay products |
| 9612 | hand buffer - metal products manufacturing |
| 7452 | hand bundler |
| 9614 | hand bundler - wood processing |
| 5244 | hand candle maker |
| 5244 | hand carver, stones |
| 5244 | hand case maker |

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| 9615 | hand cementer - rubber and plastic products manufacturing |
| 9414 | hand clay products moulder |
| 9525 | hand coil taper - industrial electrical equipment |
| 9537 | hand colour-card maker |
| 7303 | hand compositors supervisor |
| 5244 | hand crocheter |
| 9445 | hand cutter - clothing manufacturing |
| 9445 | hand cutter - fabric, fur and leather products manufacturing |
| 9619 | hand cutter, cloth |
| 5244 | hand dollmaker |
| 7237 | hand electric arc welder |
| 5244 | hand embroiderer |
| 5244 | hand enameller |
| 5244 | hand engraver |
| 9524 | hand filament mounter |
| 9612 | hand filer - metal products manufacturing |
| 6741 | hand finisher - laundry and dry cleaning |
| 9413 | hand finisher, glass edges |
| 9537 | hand fish net maker |
| 9537 | hand former, hat brims |
| 6741 | hand fur cleaner |
| 9413 | hand glass cutter |
| 9413 | hand glass edge finisher |
| 5244 | hand glassworker |
| 9414 | hand granite polisher |
| 9537 | hand hat blocker |
| 9537 | hand hat brim former |
| 9423 | hand hose maker - rubber products manufacturing |
| 6332 | hand icer - bakery |
| 9619 | hand inserter - printing |
| 6741 | hand ironer - laundry and dry cleaning |
| 5244 | hand jewellery artisan |
| 5244 | hand knitter |
| 9537 | hand lacer - sporting goods manufacturing |
| 9532 | hand laminator - furniture manufacturing |
| 9417 | hand lapper - metal machining |
| 9412 | hand lead caster - foundry |
| 9445 | hand leather cutter - leather products manufacturing |
| 5244 | hand leather worker |
| 9537 | hand lens beveller - non-prescription |
| 9537 | hand lens edger - non-prescription |
| 6541 | hand luggage inspector |
| 9414 | hand marble polisher |
| 5244 | hand metalworker |
| 9414 | hand moulder - clay products |
| 9414 | hand moulder, clay products |
| 9412 | hand mouldmaker - foundry |
| 9524 | hand mounter, filaments |
| 5244 | hand needleworker |
| 9537 | hand net-maker |
| 7452 | hand packager |
| 6622 | hand packer - food store |
| 5223 | hand painter - graphic arts |
| 9619 | hand paper pad gluer |
| 5244 | hand papermaker |
| 7612 | hand peat moss cutter |
| 9537 | hand pleater - garment manufacturing |
| 9414 | hand polisher, marble |
| 9414 | hand polisher, stones |
| 9414 | hand porcelain and earthenware presser - clay products |
| 9414 | hand presser - clay products |
| 6741 | hand presser - laundry and dry cleaning |
| 5244 | hand quilter |
| 7237 | hand resistance welder |
| 9423 | hand rubber footwear maker |
| 5244 | hand rug maker |
| 7452 | hand sacker - material handling |
| 9537 | hand sample container maker |
| 9412 | hand sand-core maker - foundry |
| 9619 | hand sander - furniture manufacturing |
| 9441 | hand screen printer - textile manufacturing |
| 9463 | hand shellfish processor - fish and seafood processing |
| 5244 | hand silk flower maker |
| 9616 | hand skeiner - textile processing |
| 5244 | hand spinner |
| 8432 | hand sprayer - greenhouse |
| 9473 | hand stitcher - binding |
| 5244 | hand stone carver |
| 9414 | hand stone polisher |
| 9414 | hand stonecutter |
| 7445 | hand tool repairman/woman |
| 9227 | hand tools manufacturing foreman/woman |
| 9536 | hand touch-up painter - production |
| 9619 | hand trimmer - garment manufacturing |
| 9619 | hand trimmer - shoe manufacturing |
| 7452 | hand truck operator |
| 6741 | hand washer - laundry and dry cleaning |
| 5244 | hand weaver |
| 5244 | hand woodenware carver |
| 5244 | hand woodworker |
| 5243 | handbag designer |
| 9619 | handbag framer |
| 9537 | handbag maker, leather |
| 9217 | handbag manufacturing foreman/woman |
| 5251 | handball player |
| 1513 | handbill passer - courier service |
| 5121 | handbook writer |
| 9537 | handle and vent machine tender |
| 9619 | handle mounter |
| 9614 | handler - wood treatment |
| 9618 | handler, fish-processing plant |
| 8262 | handliner fisherman/woman |
| 4169 | handwriting analyst |
| 4169 | handwriting expert |
| 6733 | handyman/woman |
| 8231 | hang-up blaster - underground mining |
| 1251 | Hansard reporter |

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| **0714** | harbour master |
| **2273** | harbour pilot |
| **0431** | harbour police chief |
| **4311** | harbour police officer |
| **4311** | harbour police sergeant |
| **4311** | harbour policeman/woman |
| **9537** | hard hat assembler |
| **9434** | hardboard press operator - wood processing |
| **9536** | hardboard spray-coating machine tender |
| **9537** | hardboard-coating line checker |
| **9434** | hardboard-forming line operator |
| **9434** | hardboard-grinding machine operator |
| **9434** | hardboard-oiling machine tender |
| **9619** | hardener - optical instruments manufacturing |
| **9411** | hardener - primary metal processing |
| **7384** | hard-hat diver |
| **9415** | hardness tester - primary metal processing |
| **8231** | hardrock miner |
| **8231** | hardrock miner apprentice |
| **9537** | hardware assembler |
| **9532** | hardware assembler - furniture manufacturing |
| **6222** | hardware buyer |
| **2147** | hardware circuit board designer |
| **2147** | hardware design engineer |
| **2147** | hardware development engineer |
| **2147** | hardware engineer |
| **2282** | hardware installation technician |
| **9532** | hardware installer - furniture manufacturing |
| **9532** | hardware mounter - furniture manufacturing |
| **0113** | hardware purchasing director |
| **0113** | hardware purchasing manager |
| **6421** | hardware salesperson - retail |
| **6421** | hardware store clerk |
| **6421** | hardware store clerk - retail |
| **0621** | hardware store manager |
| **2147** | hardware technical architect |
| **2282** | hardware technical support analyst |
| **9537** | hardware, tool and knife inspector |
| **8421** | hardwood faller and bucker |
| **7295** | hardwood floor covering installer |
| **7295** | hardwood floor layer |
| **9523** | harness and cable fabricator - electronic equipment manufacturing |
| **9616** | harness cleaner - textile processing |
| **9442** | harness preparer - textiles |
| **5251** | harness race driver |
| **5251** | harness racing driver |
| **5253** | harness racing starter |
| **9619** | harness rigger, parachutes |
| **9442** | harness tier - textiles |
| **5133** | harpist |
| **8262** | harpoon fisherman/woman |
| **5244** | harpsichord builder |
| **8611** | harvest hand |
| **8611** | harvest worker |
| **8431** | harvester machine operator |
| **8611** | harvesting labourer |
| **9537** | hat and cap eyelet machine operator |
| **9217** | hat and cap makers foreman/woman |
| **9619** | hat and cap parts bundler |
| **9619** | hat and cap perforator |
| **9437** | hat block maker - woodworking |
| **9537** | hat brim cutter - fabric products manufacturing |
| **9619** | hat brusher |
| **6742** | hat check attendant |
| **6741** | hat cleaner |
| **9537** | hat cone former - hat manufacturing |
| **9537** | hat cone shrinker |
| **9537** | hat crown and brim former - hat manufacturing |
| **9537** | hat decoration maker |
| **9537** | hat decorator - fabric products manufacturing |
| **5243** | hat designer |
| **9217** | hat dyer supervisor |
| **9537** | hat finisher |
| **9537** | hat foundation maker - fabric products manufacturing |
| **9447** | hat fur sorter |
| **9447** | hat inspector |
| **9619** | hat liner |
| **9537** | hat ornament maker |
| **9537** | hat presser, machine - hat manufacturing |
| **9619** | hat sizer |
| **9619** | hat sorter |
| **9619** | hat sweatband flanger |
| **9619** | hat treater |
| **9217** | hat trimming department foreman/woman |
| **9537** | hat-brim-flexing machine tender - hat manufacturing |
| **8252** | hatchery foreman/woman |
| **8613** | hatchery helper |
| **0821** | hatchery manager |
| **0821** | hatchery operator |
| **8431** | hatchery worker |
| **8613** | hatchery worker - aquaculture |
| **8252** | hatchery workers foreman/woman |
| **9537** | hat-greasing machine tender - hat manufacturing |
| **9537** | hatmaking machine operator |
| **9537** | hat-pouncing machine tender - hat manufacturing |
| **8411** | haulage truck driver - underground mining |
| **8411** | haulageman/woman - underground mining |
| **8431** | hay baler operator - agriculture |
| **9213** | hazard analysis critical control point (HACCP) co-ordinator |
| **2263** | hazardous waste inspector |
| **2263** | hazardous waste inspector - environmental health |
| **2263** | hazardous waste management technologist |
| **4217** | hazzan |
| **2272** | head air traffic controller |

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| 0511 | head archivist |
| 6313 | head baggage porter |
| 6332 | head baker |
| 6332 | head baker - retail |
| 6512 | head barmaid |
| 6512 | head barman/barwoman |
| 6512 | head bartender |
| 9462 | head boner - meat packing plant |
| 7362 | head brakeman/woman |
| 6331 | head butcher - retail |
| 6331 | head butcher - retail or wholesale |
| 6331 | head butcher - wholesale |
| 6315 | head caretaker |
| 6211 | head cashier |
| 9231 | head charger |
| 6321 | head chef |
| 6315 | head cleaner |
| 6315 | head cleaning man/woman |
| 5252 | head coach |
| 4422 | head correctional officer |
| 6315 | head custodian |
| 6315 | head custodian - cleaning services |
| 1215 | head dispatcher |
| 7247 | head end technician - cable television |
| 5226 | head grip |
| 6315 | head janitor |
| 0511 | head librarian |
| 4422 | head matron - correctional service |
| 9213 | head miller - feed-and-flour mill |
| 9213 | head mixer - bakery |
| 3011 | head nurse |
| 0511 | head of cataloguing |
| 5226 | head of wardrobe |
| 1313 | head office underwriter - insurance |
| 5212 | head preparator - museums and art galleries |
| 9212 | head refrigerationg engineer |
| 6321 | head rotisseur |
| 9431 | head sawyer |
| 9431 | head sawyer - sawmill |
| 1215 | head shipper |
| 6551 | head teller - financial services |
| 2275 | head train dispatcher |
| 9473 | headband and liner gluer - printing |
| 9418 | header machine operator - metal |
| 1223 | head-hunter |
| 9537 | heading machine tender |
| 9522 | headlight adjuster - motor vehicle manufacturing |
| 5123 | headline writer |
| 8411 | headman/woman - underground mining |
| 7202 | head-office repair supervisor |
| 0431 | headquarters chief inspector - police |
| 4311 | headquarters duty officer - police |
| 0431 | headquarters police inspector |
| 9431 | headrig operator - sawmill |
| 9431 | head-saw operator - sawmill |
| 6513 | headwaiter/headwaitress - food and beverage services |
| 3414 | health aide |
| 1312 | health and dental claims examiner - insurance |
| 2263 | health and safety advisor |
| 0112 | health and safety co-ordinator |
| 2263 | health and safety inspector |
| 4021 | health and safety instructor |
| 2263 | health and safety officer |
| 2263 | health and safety technician |
| 2263 | health and safety technologist |
| 4165 | health and social services institution accreditation officer |
| 4165 | health and social services liaison officer |
| 0411 | health and welfare manager - government services |
| 4168 | health authority board member |
| 3413 | health care aide |
| 3413 | health care assistant |
| 0014 | health care association president |
| 4165 | health care association program officer |
| 4165 | health care consultant |
| 3131 | health care institution pharmacist |
| 0411 | health care insurance plan director - government services |
| 0411 | health care insurance refund claims director - government services |
| 4165 | health care planner |
| 4165 | health care planning consultant |
| 4165 | health care planning officer |
| 4165 | health care program administration officer |
| 4165 | health care researcher |
| 0513 | health club manager |
| 0012 | health commissioner |
| 4162 | health economist |
| 0411 | health education director - government services |
| 4031 | health education teacher - secondary school |
| 4165 | health educator |
| 0411 | health information and promotion chief - government services |
| 0411 | health information and promotion director - government services |
| 1411 | health information clerk |
| 1252 | health information management coder |
| 1122 | health information management consultant |
| 1252 | health information management practitioner |
| 1252 | health information management professional |
| 1252 | health information management supervisor |
| 1252 | health information management technician |
| 5111 | health librarian |
| 2263 | health officers supervisor |
| 2111 | health physicist |
| 4165 | health policy development officer |
| 4165 | health policy research analyst |
| 4165 | health program information analyst |

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| **0411** | health program operations manager - government services |
| **0411** | health programs assistant director - government services |
| **0411** | health promotion chief - government services |
| **4165** | health promotion program officer |
| **0114** | health records administrator |
| **1252** | health records classifier |
| **1411** | health records clerk |
| **1252** | health records management coder |
| **1252** | health records management supervisor |
| **1252** | health records technician |
| **4165** | health research officer |
| **4165** | health services consultant |
| **0411** | health services director - government services |
| **0014** | health services institution executive director |
| **4165** | health services program consultant |
| **4165** | health services research officer |
| **4165** | health services researcher |
| **2263** | health standards inspector |
| **0411** | health strategies manager - government services |
| **0513** | health studio manager |
| **4021** | health technology teacher |
| **3237** | hearing aid assistant |
| **3237** | hearing aid consultant |
| **3237** | hearing aid dealer |
| **3237** | hearing aid dealer and consultant |
| **9523** | hearing aid inspector - electronic equipment manufacturing |
| **3237** | hearing aid practitioner |
| **2242** | hearing aid repairer |
| **6421** | hearing aid sales consultant - retail |
| **6421** | hearing aid salesperson - retail |
| **3237** | hearing aid specialist |
| **3237** | hearing aid technician |
| **3237** | hearing assessment technician |
| **3237** | hearing disorder technician |
| **3237** | hearing instrument dispenser |
| **3237** | hearing instrument practitioner |
| **3237** | hearing instrument practitioner assistant |
| **3237** | hearing instrument specialist |
| **7513** | hearse driver |
| **3111** | heart specialist |
| **7293** | heat and frost insulator |
| **9441** | heat curer - textile manufacturing |
| **9461** | heat exchanger tender, Votator - food and beverage processing |
| **9527** | heat seal equipment operator - electrical equipment manufacturing |
| **9537** | heat sensor assembler |
| **2212** | heat treat technician |
| **9612** | heat treater helper |
| **9415** | heat treating inspector - metal processing |
| **9231** | heater - primary metal processing |
| **9611** | heater helper - primary metal processing |
| **9416** | heater operator - metal forging |
| **7521** | heater-planer operator |
| **7301** | heating and air conditioning contractor |
| **7313** | heating and air conditioning mechanic |
| **7612** | heating and air conditioning mechanic helper |
| **7301** | heating and air conditioning systems contractor |
| **7313** | heating and cooling mechanic |
| **7612** | heating and cooling mechanic helper |
| **9241** | heating and ventilation equipment tender |
| **2253** | heating and ventilation systems draftsperson |
| **2232** | heating designer |
| **9527** | heating element coil former - electrical equipment manufacturing |
| **9527** | heating element coil-former operator |
| **7331** | heating mechanic |
| **7331** | heating service mechanic |
| **2132** | heating specialist engineer |
| **9241** | heating stationary engineer |
| **7301** | heating system installation and repair contractor |
| **7331** | heating system mechanic |
| **7301** | heating systems contractor |
| **2253** | heating systems draftsperson |
| **7331** | heating systems installer |
| **7301** | heating systems mechanics foreman/woman |
| **7331** | heating systems servicer |
| **7331** | heating systems technician |
| **7331** | heating technician |
| **7301** | heating, ventilating and air conditioning (HVAC) mechanics foreman/woman |
| **2232** | heating, ventilating and air conditioning technician |
| **2132** | heating, ventilation and air conditioning (HVAC) engineer |
| **7313** | heating, ventilation and air conditioning (HVAC) mechanic |
| **2232** | heating, ventilation and air conditioning (HVAC) systems specialist |
| **2232** | heating, ventilation and air conditioning (HVAC) technologist |
| **9619** | heat-seal press pad assembler - furniture assembly |
| **9422** | heat-sealing machine tender - plastic manufacturing |
| **9411** | heat-treat furnace operator - primary metal processing |
| **7301** | heavy agricultural machinery assembly foreman/woman |
| **9417** | heavy chucking lathe operator - metal machining |
| **7302** | heavy construction crew foreman/woman |
| **7301** | heavy construction equipment assembly foreman/woman |
| **7302** | heavy construction labourers foreman/woman |
| **7521** | heavy construction-equipment operator |

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| 7312 | heavy diesel engine mechanic |
| 7301 | heavy equipment assembly foreman/woman |
| 7312 | heavy equipment combination mechanic |
| 7312 | heavy equipment field mechanic |
| 7316 | heavy equipment fitter |
| 7535 | heavy equipment greaser |
| 7312 | heavy equipment inspector-repairer |
| 7312 | heavy equipment mechanic |
| 7312 | heavy equipment mechanic - diesel engine |
| 7301 | heavy equipment mechanic foreman/woman |
| 7612 | heavy equipment mechanic helper |
| 7301 | heavy equipment mechanics supervisor |
| 7521 | heavy equipment operating engineer |
| 7521 | heavy equipment operator |
| 7521 | heavy equipment operator apprentice |
| 4021 | heavy equipment operators instructor - community college |
| 7302 | heavy equipment operators supervisor |
| 6221 | heavy equipment sales representative |
| 6221 | heavy equipment salesperson |
| 7535 | heavy equipment service truck driver |
| 7535 | heavy equipment servicer |
| 7301 | heavy farm equipment assembly foreman/woman |
| 9416 | heavy forger |
| 7301 | heavy machinery assembly foreman/woman |
| 7316 | heavy machinery fitter |
| 7452 | heavy materials handler |
| 9411 | heavy media separation tender - mineral and metal processing |
| 7312 | heavy mobile equipment repairer |
| 7312 | heavy mobile equipment repairman/woman |
| 7312 | heavy mobile logging equipment mechanic |
| 7312 | heavy mobile mining equipment mechanic |
| 7511 | heavy truck driver |
| 7535 | heavy truck greaser |
| 7535 | heavy truck oiler |
| 6221 | heavy truck sales representative |
| 6221 | heavy truck salesperson |
| 9232 | heavy water chemical process operator |
| 2243 | heavy water plant control technician |
| 7311 | heavy water plant mechanical maintainer |
| 9241 | heavy water steam plant operator |
| 9524 | heavy-duty capacitor assembler |
| 6733 | heavy-duty cleaner |
| 9525 | heavy-duty coil former - industrial electrical equipment |
| 9527 | heavy-duty electrical battery charger tester |
| 7312 | heavy-duty equipment mechanic |
| 7312 | heavy-duty equipment mechanic apprentice |
| 7521 | heavy-duty equipment operator |
| 7521 | heavy-duty equipment operator apprentice |
| 7302 | heavy-duty equipment operators foreman/woman |
| 7535 | heavy-duty equipment servicer |
| 7312 | heavy-duty equipment technician |
| 7312 | heavy-duty equipment technician apprentice |
| 9416 | heavy-duty press set-up operator - metal fabrication |
| 9524 | heavy-duty resistor assembler |
| 9525 | heavy-duty transformer assembler |
| 9525 | heavy-duty transformer coil winder |
| 9619 | heddle examiner |
| 9537 | heel attacher |
| 9537 | heel breaster |
| 9619 | heel compressor tender - shoe manufacturing |
| 9423 | heel cutter - rubber footwear |
| 9537 | heel finisher, wood - footwear manufacturing |
| 9537 | heel maker |
| 9423 | heel maker - rubber footwear |
| 9619 | heel reducer - shoe manufacturing |
| 9619 | heel scorer - shoe manufacturing |
| 9537 | heel seat fitter |
| 9619 | heel shaper - shoe manufacturing |
| 9537 | heel-trimming machine operator - footwear manufacturing |
| 7237 | heliarc welder |
| 9226 | helicopter assembly foreman/woman |
| 9226 | helicopter assembly supervisor |
| 2271 | helicopter chief pilot |
| 2271 | helicopter flight instructor |
| 7301 | helicopter maintenance foreman/woman - mechanical systems |
| 7315 | helicopter mechanic |
| 7315 | helicopter mechanical systems inspector |
| 2271 | helicopter pilot |
| 2121 | helminthologist |
| 5251 | helmsman - sports |
| 7532 | helmsman/woman - water transport |
| 4212 | help centre supervisor - social services |
| 2282 | help desk analyst - systems |
| 0213 | help desk manager - information technology (IT) |
| 2282 | help desk technical agent |
| 2282 | help desk technician |
| 5121 | help file developer |
| 9613 | helper - chemical processing |
| 7621 | helper - garbage collection |
| 9611 | helper - primary metal and mineral products processing |
| 9619 | helper - printing |
| 9616 | helper - textiles |
| 9611 | helper, fibreglass oven charger |
| 9612 | helper, industrial sheet metal worker |
| 9611 | helper, metal reclaimer - primary metal processing |
| 9611 | helper, metal salvager - primary metal processing |
| 9619 | helper, portable diamond drill and saw operator |
| 9615 | helper, rubber products manufacturing |
| 9611 | helper, stretcher-leveller - primary metal processing |

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| **3111** | hematological-pathologist |
| **3111** | hematologist |
| **3212** | hematology technician - medical laboratory |
| **3211** | hematology technologist - medical laboratory |
| **3111** | hematopathologist |
| **3111** | hematopathology specialist |
| **9446** | hemmer machine operator - sewing |
| **3012** | hemodialysis nurse |
| **3219** | hemodialysis technician |
| **3219** | hemodialysis technologist |
| **6562** | henna tattoo artist |
| **5243** | heraldist |
| **3232** | herb practitioner |
| **3414** | herbal medicine assistant |
| **3232** | herbal practitioner |
| **3232** | herbal specialist |
| **3232** | herbalist |
| **5112** | herbarium curator |
| **3232** | herbologist |
| **3232** | herbology practitioner |
| **3232** | herborist |
| **8252** | herd attendant |
| **8431** | herd hand |
| **8252** | herd superintendent |
| **8431** | herder - stockyards |
| **8252** | herdsman/woman |
| **8252** | herdsperson |
| **5212** | heritage interpreter |
| **4166** | heritage languages education consultant |
| **0413** | heritage languages program director |
| **2153** | heritage planner - land use |
| **2153** | heritage work planner |
| **2121** | herpetologist |
| **9447** | hide and pelt processing inspector |
| **9619** | hide and pelt processing labourer |
| **9441** | hide and pelt processing worker |
| **9441** | hide and skin preparer |
| **9213** | hide curing foreman/woman - food and beverage processing |
| **9441** | hide fluffer - hide and pelt processing |
| **9447** | hide grader |
| **9447** | hide inspector |
| **9441** | hide parer - hide and pelt processing |
| **9441** | hide processing worker |
| **9447** | hide sorter |
| **9441** | hide stretcher |
| **9217** | hide tanning supervisor |
| **9217** | hide-house foreman/woman - hide and pelt processing |
| **0012** | high commissioner |
| **7233** | high rise sheet metal installer |
| **0422** | high school principal |
| **4031** | high school teacher |
| **4031** | high school teacher - outdoor activities |
| **9471** | high speed printer operator |
| **7244** | high voltage lineman/linewoman |
| **7244** | high voltage lineman/woman - electric power systems |
| **9525** | high voltage transformer bushing assembler |
| **8231** | high-raise blaster |
| **9461** | high-speed machine operator - tobacco products |
| **9441** | high-speed machine warper - textile manufacturing |
| **9461** | high-speed packer operator - tobacco products |
| **9431** | high-speed stud operator - sawmill |
| **2111** | high-temperature physicist |
| **7244** | high-voltage maintenance lineman/woman |
| **7244** | high-voltage power line patroller - electric power systems |
| **7333** | high-voltage power transformer repairer |
| **7244** | high-voltage tower lineman/woman |
| **7302** | highway and bridge maintenance road boss |
| **7282** | highway and street cement mason |
| **0012** | highway commissioner |
| **7611** | highway concrete mixer operator helper |
| **7302** | highway construction boss |
| **7302** | highway construction foreman/woman |
| **0016** | highway construction general manager |
| **2264** | highway construction inspector |
| **2264** | highway construction inspector foreman/woman |
| **0711** | highway construction manager |
| **2231** | highway construction materials testing technician |
| **2131** | highway engineer |
| **7621** | highway line painter |
| **7302** | highway maintenance foreman/woman |
| **7611** | highway maintenance worker |
| **4311** | highway patrol officer |
| **4311** | highway patrolman/woman |
| **1525** | highway radio-telephone operator |
| **4423** | highway scale operator |
| **7611** | highway sign erector |
| **7522** | highway snow removal equipment operator |
| **7522** | highway snowplough operator |
| **2231** | highway technician |
| **2231** | highway traffic technician |
| **5232** | high-wire walker |
| **6532** | hiking guide |
| **2121** | histologist |
| **3212** | histology technician |
| **3211** | histology technologist |
| **3211** | histology technologist - medical laboratory |
| **2121** | histopathologist |
| **3111** | histopathologist - medical specialist |
| **3211** | histopathology technologist |
| **4169** | historian |
| **5212** | historic site interpreter |
| **0511** | historic sites administrator |
| **5113** | historical archivist |
| **5112** | historical artifact conservator |

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| **4169** | historical geographer |
| **5212** | historical interpreter |
| **0511** | historical park assistant director |
| **0511** | historical park assistant superintendent |
| **0511** | historical park director |
| **0511** | historical park superintendent |
| **5212** | historical site technician |
| **5212** | historical village supervisor |
| **5212** | historical village technician |
| **4011** | history assistant professor - university |
| **5212** | history museum interpreter |
| **4011** | history professor - university |
| **4021** | history teacher - CEGEP |
| **4031** | history teacher - secondary school |
| **3211** | histotechnologist - medical laboratory |
| **6421** | hobby shop salesperson |
| **0014** | hockey association general manager |
| **5252** | hockey coach |
| **5251** | hockey player |
| **5252** | hockey scout |
| **9533** | hockey stick assembler |
| **9533** | hockey stick inspector-grader |
| **5252** | hockey team coach |
| **0821** | hog breeder |
| **6222** | hog buyer |
| **8252** | hog farm foreman/woman |
| **8252** | hog farm supervisor |
| **8431** | hog farm worker |
| **8252** | hog farm workers supervisor |
| **0821** | hog farmer |
| **9462** | hog killer |
| **9614** | hog machine tender - wood processing |
| **8252** | hog operation supervisor |
| **0821** | hog producer |
| **9533** | hogshead assembler - wood products manufacturing |
| **9617** | hogshead filler - tobacco products |
| **9465** | hogshead inspector - tobacco processing |
| **7371** | hoist operator - foundry |
| **8231** | hoist operator - underground mining |
| **7371** | hoist operator (except underground mining) |
| **9226** | hoisting-and-lifting equipment assembly foreman/woman |
| **8231** | hoistman/woman underground mining |
| **9437** | hole saw tender - woodworking |
| **0651** | holidays service manager |
| **3232** | holistic practitioner |
| **9537** | hollowware-buffing machine tender |
| **9473** | hologram-imprinting machine tender |
| **2241** | holographics technician |
| **2241** | holographics technologist |
| **3217** | Holter monitor technologist |
| **3217** | Holter scanning technologist |
| **2232** | home automation technician |
| **0712** | home builder |
| **0712** | home building contractor |
| **3012** | home care neuroscience nurse |
| **3012** | home care nurse |
| **3143** | home care occupational therapist |
| **0651** | home care service manager |
| **0411** | home care services director - government services |
| **0311** | home care services director - medical services |
| **4411** | home child care provider |
| **6731** | home cleaner |
| **2264** | home construction inspector |
| **5242** | home decorating consultant |
| **5242** | home decorator |
| **6623** | home demonstrator - retail |
| **4164** | home economics consultant |
| **4032** | home economics teacher - elementary school |
| **4031** | home economics teacher - secondary school |
| **2211** | home economics technologist |
| **4164** | home economist |
| **4164** | home economist - consumer association |
| **4412** | home health care worker |
| **2264** | home inspector |
| **2241** | home lighting technician |
| **4217** | home mission worker - religion |
| **1313** | home office underwriter - insurance |
| **5242** | home organizer |
| **0712** | home renovation contractor |
| **0712** | home renovator |
| **6623** | home salesperson |
| **5242** | home stager |
| **5242** | home staging consultant |
| **4412** | home support attendant |
| **4412** | home support worker |
| **2273** | home trade first mate |
| **2273** | home trade master |
| **2273** | home trade mate |
| **2273** | home trade second mate |
| **4412** | home visitor - infant care |
| **4165** | home-care programs consultant |
| **4412** | home-care worker |
| **4412** | homemaker |
| **6731** | homemaker helper - rest home |
| **0411** | homemaker services director - government services |
| **0423** | homemaker services director - social services |
| **3232** | homeopath |
| **3232** | homeopathic physician |
| **3232** | homeopathic practitioner |
| **3232** | homeopathist |
| **4413** | homework assistant |
| **9461** | homogenizer operator - food and beverage processing |
| **8431** | honey farm worker |
| **9465** | honey grader and blender |
| **9461** | honey-processing equipment operator |
| **9417** | honing machine operator - metal machining |

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| **9417** | honing machine set-up operator - metal machining |
| **9522** | hood fitter - motor vehicle manufacturing |
| **9617** | hoof remover - food and beverage processing |
| **8211** | hook and rig supervisor - logging |
| **7311** | hook repairer - textile manufacturing |
| **8211** | hook tender - logging |
| **9423** | hooker-laster - rubber products manufacturing |
| **9416** | hoop bender |
| **8262** | hoop net fisherman/woman |
| **9437** | hoop-driver operator - woodworking |
| **9437** | hoop-driving machine operator - woodworking |
| **9416** | hoop-maker machine operator - metal fabrication |
| **9418** | hoop-making machine operator |
| **9418** | hoop-punching and hoop-coiling machine operator - metal products manufacturing |
| **9418** | hoop-riveting machine operator |
| **8252** | hop farm foreman/woman |
| **0821** | hop grower |
| **0821** | hop producer |
| **8431** | hop-picking machine operator |
| **7521** | ho-ram operator |
| **9417** | horizontal boring and milling machine set-up operator |
| **9437** | horizontal boring machine operator - woodworking |
| **7611** | horizontal earth-boring machine helper |
| **7521** | horizontal earth-boring machine operator |
| **9437** | horizontal resaw operator - woodworking |
| **5133** | horn player |
| **5133** | horn teacher - private, conservatory or studio lessons |
| **8431** | horse breaker |
| **0821** | horse breeder |
| **6563** | horse hot-walker |
| **5253** | horse identifier |
| **8421** | horse logger |
| **5253** | horse plating inspector - racetrack |
| **5253** | horse race timer |
| **0513** | horse racing director |
| **5253** | horse racing starter |
| **8252** | horse stable foreman/woman |
| **8252** | horse trainer |
| **6532** | horseback riding guide |
| **5254** | horseback riding instructor |
| **6531** | horse-drawn vehicle sightseeing tour guide |
| **5253** | horseshoe inspector |
| **7384** | horseshoer |
| **8255** | horticultural contractor |
| **0822** | horticultural greenhouse operator |
| **2225** | horticultural technician |
| **2225** | horticultural technologist |
| **4021** | horticulture and landscaping instructor - school of horticulture |
| **2225** | horticulture specialist |
| **2225** | horticulture technician |
| **2225** | horticulture technologist |
| **8432** | horticulture worker |
| **8255** | horticulture workers supervisor |
| **2225** | horticulturist |
| **8432** | horticulturist helper |
| **9214** | hose building foreman/woman - rubber manufacturing |
| **9214** | hose building supervisor - rubber products manufacturing |
| **9615** | hose checker - rubber products manufacturing |
| **9423** | hose curer - rubber products manufacturing |
| **9423** | hose cutter and brander operator - rubber products manufacturing |
| **9615** | hose cutter, hand - rubber products manufacturing |
| **9423** | hose maker machine operator - rubber products manufacturing |
| **7611** | hoseman/woman insulation helper |
| **9441** | hosiery boarder |
| **9616** | hosiery folder |
| **9217** | hosiery foreman/woman |
| **9447** | hosiery grader |
| **9447** | hosiery inspector |
| **9442** | hosiery knitter |
| **9442** | hosiery looper - textiles |
| **9447** | hosiery pairer |
| **9442** | hosiery seamer - textiles |
| **9447** | hosiery sizer |
| **9616** | hosiery tray dryer |
| **9442** | hosiery-knitting machine tender |
| **3413** | hospice worker |
| **0014** | hospital administrator |
| **1414** | hospital admissions clerk |
| **0114** | hospital admissions director |
| **1414** | hospital admitting clerk |
| **1211** | hospital admitting clerks supervisor |
| **3413** | hospital aide |
| **3413** | hospital attendant |
| **6332** | hospital baker |
| **6731** | hospital cleaner |
| **6322** | hospital cook |
| **3131** | hospital druggist |
| **2241** | hospital electronic equipment repairer |
| **6221** | hospital equipment sales representative |
| **6221** | hospital equipment salesperson |
| **0014** | hospital executive director |
| **6312** | hospital executive housekeeper |
| **6311** | hospital food service supervisor |
| **3012** | hospital hygiene nurse |
| **3012** | hospital hygienist - nursing |
| **6552** | hospital information clerk |
| **1434** | hospital insurance clerk |

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| **6711** | hospital meal attendant |
| **3012** | hospital nurse |
| **3413** | hospital orderly |
| **3131** | hospital pharmacist |
| **3413** | hospital porter |
| **1414** | hospital receptionist |
| **1411** | hospital records clerk |
| **9241** | hospital stationary engineer |
| **6421** | hospital television rental attendant |
| **6711** | hospital tray carrier |
| **3413** | hospital ward aide |
| **6511** | host/hostess - food service |
| **6511** | host/hostess - restaurant or cocktail lounge |
| **5231** | host/hostess - television or radio |
| **4212** | hostel co-ordinator |
| **0632** | hostel manager |
| **4212** | hostel outreach worker |
| **3413** | hostel service aide - medical |
| **7535** | hostler - transit system |
| **6532** | hot air balloonist |
| **9611** | hot bed leverman/woman - primary metal processing |
| **7303** | hot composition foreman/woman - printing |
| **6711** | hot dog vendor |
| **7237** | hot gas welder |
| **7371** | hot metal crane operator |
| **9231** | hot mill roller - primary metal processing |
| **9614** | hot plate press tender helper |
| **9414** | hot press operator - clay products |
| **9416** | hot press operator - metal forging |
| **9434** | hot press operator - wood processing |
| **9437** | hot press tender - woodworking |
| **9411** | hot strip finishing mill tender - primary metal processing |
| **9411** | hot strip roughing mill tender - primary metal processing |
| **7441** | hot tub installer |
| **7441** | hot tub servicer |
| **7205** | hot water heater installation contractor |
| **7441** | hot water heater installer |
| **9412** | hot-box moulder - foundry |
| **9536** | hot-dip coater - metal plating |
| **9536** | hot-dip galvanizer - metal plating |
| **6411** | hotel accommodations sales executive |
| **2263** | hotel and restaurant inspector - public health |
| **0632** | hotel assistant manager |
| **6332** | hotel baker |
| **6611** | hotel cashier |
| **0015** | hotel chain regional vice-president |
| **6731** | hotel cleaner |
| **6525** | hotel clerk |
| **6313** | hotel clerk head |
| **6313** | hotel clerk supervisor |
| **6525** | hotel concierge |
| **0632** | hotel director |
| **6721** | hotel doorkeeper |
| **6312** | hotel executive housekeeper |
| **0631** | hotel food and beverage service manager |
| **6525** | hotel front desk clerk |
| **0632** | hotel front desk manager |
| **6525** | hotel front office clerk |
| **0632** | hotel front office manager |
| **0015** | hotel general manager |
| **6721** | hotel guest services attendant |
| **6552** | hotel information clerk - contact centre |
| **4021** | hotel management teacher - college |
| **0632** | hotel manager |
| **6313** | hotel managing supervisor |
| **6525** | hotel night auditor |
| **0632** | hotel operator |
| **1225** | hotel purchasing agent |
| **1225** | hotel purchasing officer |
| **6525** | hotel receptionist |
| **6411** | hotel services sales representative |
| **6411** | hotel supply sales representative |
| **6742** | hotel valet |
| **6513** | hotel waiter/waitress - formal service |
| **0822** | hothouse flower grower |
| **7205** | hothouse installers foreman/woman |
| **8432** | hothouse worker |
| **9418** | hot-wound spring coiler |
| **2232** | house automation technician |
| **7271** | house carpenter |
| **6731** | house cleaner |
| **6541** | house detective |
| **7302** | house mover contractor |
| **7302** | house moving foreman/woman |
| **0414** | House of Commons administrator |
| **0423** | House of Commons chief clerk |
| **4168** | House of Commons committee officer |
| **4168** | House of Commons officer |
| **7294** | house painter |
| **9226** | house trailer assembly foreman/woman |
| **6421** | house trailer salesperson - retail |
| **2242** | household and business equipment technician |
| **7441** | household appliance installer |
| **7301** | household appliance repair shop foreman/woman |
| **6421** | household appliance salesperson - retail |
| **7332** | household electrical appliance repairman/woman |
| **7332** | household electrical appliance service technician |
| **7452** | household goods mover |
| **4412** | housekeeper |
| **6731** | housekeeping aide |
| **6731** | housekeeping attendant |
| **6312** | housekeeping director |
| **6312** | housekeeping manager |
| **6731** | housekeeping room attendant |
| **6315** | housekeeping room attendant supervisor |
| **0411** | housekeeping services director - government services |

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| **6315** | housekeeping supervisor |
| **6731** | housemaid - cleaning services |
| **6731** | houseman/woman |
| **6742** | housesitter |
| **6421** | housewares salesperson - retail |
| **2264** | housing construction inspector |
| **0711** | housing construction manager |
| **1224** | housing development officer |
| **4164** | housing policy analyst |
| **0411** | housing policy and development director - government services |
| **1224** | housing project manager |
| **2264** | housing rehabilitation inspector |
| **0712** | housing rehabilitation specialist - builder |
| **0712** | housing renovator |
| **2273** | hovercraft master |
| **2253** | hull draftsperson - shipbuilding and repair |
| **9531** | hull inspector |
| **9531** | hull surveyor |
| **3141** | human communication disorders specialist |
| **4151** | human development psychologist |
| **4161** | human factors engineer |
| **4161** | human factors specialist (except engineer) |
| **3144** | human kineticist |
| **2121** | human physiologist |
| **4153** | human relations officer - family and children's services |
| **4153** | human relations officer - family therapy |
| **4152** | human relations officer - social work |
| **0112** | human resources administrator |
| **1121** | human resources adviser |
| **0013** | human resources and organizational development vice-president - financial, communications and other business services |
| **0016** | human resources and organizational development vice-president - goods production, utilities, transportation and construction |
| **0014** | human resources and organizational development vice-president - health, education, social and community services and membership organizations |
| **0015** | human resources and organizational development vice-president - trade, broadcasting and other services |
| **1121** | human resources arbitrator |
| **1415** | human resources assistant |
| **1121** | human resources classification officer |
| **1415** | human resources clerk |
| **1121** | human resources consultant |
| **1121** | human resources co-ordinator |
| **0112** | human resources development and planning director |
| **0112** | human resources development director |
| **0112** | human resources director |
| **4162** | human resources economist |
| **1121** | human resources generalist |
| **1121** | human resources management consultant |
| **0112** | human resources management director |
| **0112** | human resources manager |
| **1223** | human resources officer |
| **1121** | human resources planning consultant |
| **0112** | human resources planning manager |
| **1121** | human resources policy analyst |
| **1121** | human resources policy officer |
| **1121** | human resources program supervisor |
| **1121** | human resources research officer |
| **1241** | human resources secretary |
| **1121** | human resources specialist |
| **1121** | human resources supervisor |
| **0013** | human resources vice-president - bank |
| **0013** | human resources vice-president - financial, communications and other business services |
| **0016** | human resources vice-president - goods production, utilities, transportation and construction |
| **0014** | human resources vice-president - health, education, social and community services and membership organizations |
| **0015** | human resources vice-president - trade, broadcasting and other services |
| **0012** | Human Rights Commission chairperson |
| **4164** | Human Rights Commission officer |
| **4164** | Human Rights Commission officers supervisor |
| **4164** | human rights officer |
| **4164** | human rights officer - government services |
| **4164** | human rights specialist |
| **4423** | Humane Society inspector |
| **4423** | Humane Society officer |
| **4011** | humanities professor - university |
| **4031** | humanities teacher - high school |
| **9434** | humidifier tender - wood processing |
| **9241** | humidifying systems operator |
| **5135** | humorist - performing arts |
| **5121** | humorist-author |
| **8442** | hunter |
| **9412** | hunter machine operator - foundry |
| **6532** | hunting and fishing guide |
| **0632** | hunting and fishing lodge manager |
| **6532** | hunting and fishing outfitter |
| **0632** | hunting camp operator |
| **6532** | hunting guide |
| **6421** | hunting guns salesperson - retail |
| **9523** | hybrid circuit assembler - electronic equipment manufacturing |
| **9523** | hybrid inspector - electronic equipment manufacturing |
| **7442** | hydrant and valve maintenance worker |
| **9611** | hydrate scale reclaimer - primary metal processing |
| **9411** | hydrate thickener operator |
| **9421** | hydrator operator |
| **9434** | hydraulic barker operator - wood processing |

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| **9532** | hydraulic chair assembler |
| **8231** | hydraulic coal monitor operator |
| **7521** | hydraulic excavator operator |
| **9526** | hydraulic hoist assembler |
| **9521** | hydraulic installation - aircraft assembly |
| **2253** | hydraulic machinery draftsperson |
| **9416** | hydraulic press operator - metal fabrication |
| **9437** | hydraulic press tender - woodworking |
| **9526** | hydraulic pump assembler |
| **9521** | hydraulic system installer - aircraft assembly |
| **7301** | hydraulic unit repair shop foreman/woman |
| **7445** | hydraulic unit repairer |
| **2131** | hydraulics engineer |
| **2121** | hydrobiologist |
| **8232** | hydrocarbon mud logger - oil field services |
| **2112** | hydrochemist |
| **9241** | hydro-electric generating station operator |
| **9241** | hydro-electric power plant operator |
| **0912** | hydro-electric power production plant director |
| **0912** | hydro-electric power station director |
| **0016** | hydro-electric power station president |
| **9212** | hydro-electric station chief operator |
| **6221** | hydro-electricity sales representative |
| **7237** | hydrogen braze furnace man/woman |
| **7237** | hydrogen braze furnace operator |
| **9414** | hydrogen furnace tender - clay products |
| **9232** | hydrogen process plant operator |
| **9461** | hydrogenation operator - food and beverage processing |
| **2144** | hydrogeological engineer - engineering |
| **2113** | hydrogeologist |
| **2144** | hydrogeology engineer - engineering |
| **2131** | hydrographic engineer |
| **2212** | hydrographic survey technician |
| **2212** | hydrographic survey technologist |
| **2113** | hydrographic surveyor - geology |
| **2131** | hydrological engineer |
| **2212** | hydrological technician |
| **2113** | hydrologist |
| **2212** | hydrology technician |
| **2142** | hydrometallurgical engineer |
| **2115** | hydrometallurgist |
| **2114** | hydrometeorologist |
| **9537** | hydrometer assembler |
| **7313** | hydronics technician |
| **0822** | hydroponic greenhouse operator |
| **0822** | hydroponics grower |
| **0822** | hydroponics operator |
| **2225** | hydroponics technician |
| **8432** | hydroponics worker |
| **2261** | hydrostatic tester |
| **7511** | hydrovac truck operator |
| **4011** | hygiene professor - university |
| **3111** | hyperbaric physician |
| **3232** | hypnotherapist |
| **5232** | hypnotist |

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| **9222** | IC (integrated circuit) fabrication supervisor - electronic equipment manufacturing |
| **9537** | ice chip maker tender |
| **2255** | ice conditions service specialist - meteorology |
| **6711** | ice cream counter attendant |
| **9461** | ice cream decorator - food and beverage processing |
| **9461** | ice cream maker |
| **9213** | ice cream making foreman/woman |
| **9461** | ice cream novelty maker |
| **9213** | ice cream processing assistant supervisor |
| **6711** | ice cream vendor |
| **9617** | ice cream worker - food and beverage processing |
| **9537** | ice machine tender |
| **9537** | ice maker |
| **2255** | ice observer |
| **6722** | ice rink attendant |
| **6316** | ice rink supervisor |
| **5136** | ice sculptor |
| **2113** | ice specialist - oceanography |
| **9537** | ice-cutting machine tender |
| **5254** | ice-skating instructor |
| **2221** | ichthyological technician |
| **2221** | ichthyological technologist |
| **2121** | ichthyologist |
| **9617** | icing dipper - food and beverage processing |
| **9461** | icing machine operator - food and beverage processing |
| **9461** | icing maker - food and beverage processing |
| **9461** | icing mixer - food and beverage processing |
| **9461** | icing sugar mill tender |
| **5111** | iconographer |
| **3012** | ICU (intensive care unit) nurse |
| **1415** | identification clerk |
| **4311** | identification officer - police |
| **9537** | igniter assembler |
| **5232** | illusionist |
| **5241** | illustrator |
| **5241** | illustrator and graphic designer |
| **6561** | image consultant |
| **6561** | image co-ordinator |
| **9472** | image processing operator |
| **9472** | image reproduction machine operator |
| **9472** | image setter operator |
| **9472** | image-processing system operator |
| **4154** | imam |
| **1221** | immigrant investors program co-ordinator |
| **4164** | immigrant settlement liaison officer |
| **1228** | Immigration Act enforcement officer |
| **1228** | immigration agent - government services |
| **4164** | immigration and demographic analysis officer |

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| **0411** | immigration and settlement director - government services |
| **0411** | Immigration Appeal Division director - government services |
| **1228** | immigration appeal officer |
| **0411** | immigration appeals and litigation chief - government services |
| **0411** | immigration appeals manager - government services |
| **4164** | immigration consultant |
| **1228** | immigration examiner |
| **1228** | immigration examining officer |
| **1228** | immigration inspector |
| **4112** | immigration lawyer |
| **1228** | immigration officer - government services |
| **1228** | immigration officers supervisor |
| **4164** | immigration policy advisor |
| **4164** | immigration policy analyst |
| **4164** | immigration policy consultant - non-government |
| **4164** | immigration settlement practitioner |
| **3211** | immunohematology technologist |
| **3211** | immunohematology technologist - medical laboratory |
| **2121** | immunologist |
| **3111** | immunologist and allergologist |
| **3211** | immunology technologist - medical laboratory |
| **9416** | impact hammer operator - metal forging |
| **5232** | impersonator |
| **3113** | implantologist - dentistry |
| **1221** | implementation officer |
| **1452** | import clerk |
| **6411** | import company sales representative |
| **6221** | import company technical sales specialist |
| **1452** | import documentation clerk |
| **1521** | import freight clerk |
| **6411** | import sales representative |
| **1521** | import traffic clerk |
| **0731** | import traffic manager |
| **1215** | import traffic supervisor |
| **6411** | importer |
| **6411** | import-export tradesperson - wholesale |
| **1423** | imposition planner |
| **1423** | impositor |
| **9523** | impregnator and dryer - electronic equipment manufacturing |
| **9417** | impressing machine tender - metal machining |
| **9416** | impression die press operator - metal fabrication |
| **9422** | imprinting machine tender, plastics |
| **5135** | improviser |
| **7334** | inboard-outboard mechanic |
| **7334** | inboard-outboard motor mechanic |
| **6552** | inbound customer service representative - contact centre |
| **1525** | inbound/outbound freight co-ordinator |
| **9527** | incandescent lamp making inspector |
| **6522** | in-charge flight attendant |
| **3211** | in-charge technologist - autopsy services |
| **9212** | incinerator foreman/woman |
| **9619** | incinerator plant tender |
| **9523** | in-circuit test operator |
| **9434** | incising machine tender - wood processing |
| **0423** | income maintenance director |
| **4212** | income maintenance officer - social services |
| **4164** | income maintenance program officer |
| **0411** | income security district administrator - government services |
| **0411** | income security regional manager - government services |
| **1111** | income tax adjuster |
| **1111** | income tax adviser |
| **1111** | income tax consultant |
| **1111** | income tax expert |
| **1111** | income tax investigator |
| **1431** | income tax return preparer |
| **1111** | income tax specialist |
| **8431** | incubator tender - agriculture |
| **1113** | independent floor trader |
| **4212** | independent living instructor |
| **4033** | independent or applied studies officer |
| **4211** | independent paralegal |
| **3012** | independent practice - registered nurse |
| **0111** | independent public accountants chief |
| **9411** | indium refiner |
| **7237** | induction brazer operator |
| **9412** | induction furnace operator - foundry |
| **9231** | induction furnace operator - mineral and metal processing |
| **9411** | induction machine setter - primary metal processing |
| **9411** | induction machine tender - primary metal processing |
| **7237** | induction solderer |
| **9411** | induration attendant - iron ore |
| **1111** | industrial accountant |
| **2151** | industrial and commercial buildings architect |
| **1122** | industrial and commercial methods analyst |
| **0911** | industrial and manufacturing production manager |
| **4031** | industrial and vocational education teacher - secondary school |
| **4032** | industrial arts teacher - elementary school |
| **4031** | industrial arts teacher - secondary school |
| **3141** | industrial audiologist |
| **3237** | industrial audiometric technician |
| **1111** | industrial auditor |
| **7521** | industrial backhoe operator |
| **2221** | industrial bacteriological technician |
| **2221** | industrial bacteriological technologist |
| **2121** | industrial bacteriologist |
| **9527** | industrial battery assembler |

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| **7445** | industrial belt repairer |
| **9473** | industrial binder - printing |
| **7234** | industrial boilermaker |
| **9525** | industrial brake and AC (alternating current) motor assembler |
| **9525** | industrial brake and alternating current (AC) motor assembler |
| **9462** | industrial butcher |
| **9617** | industrial butcher helper |
| **2112** | industrial chemist |
| **7611** | industrial chimney repairer-mason helper |
| **6733** | industrial cleaner |
| **9536** | industrial coater |
| **7333** | industrial coil winder-repairer |
| **4163** | industrial commissioner |
| **4312** | industrial complex firefighter |
| **7234** | industrial construction boilermaker |
| **0711** | industrial construction manager |
| **7294** | industrial construction painter |
| **2264** | industrial construction safety inspector |
| **2252** | industrial design consultant |
| **2252** | industrial designer |
| **0412** | industrial development director - government services |
| **4163** | industrial development officer |
| **4163** | industrial development officer - government |
| **4163** | industrial development representative |
| **7441** | industrial door installer |
| **4162** | industrial economist |
| **2141** | industrial efficiency engineer |
| **9525** | industrial electric equipment assembler |
| **9525** | industrial electric equipment fabricator |
| **9525** | industrial electric equipment inspector |
| **2264** | industrial electric installation inspector |
| **7242** | industrial electrical repairer |
| **7202** | industrial electrical systems foreman/woman |
| **7242** | industrial electrician |
| **7242** | industrial electrician apprentice |
| **7242** | industrial electrician lead hand |
| **7202** | industrial electricians foreman/woman |
| **7202** | industrial electricians supervisor |
| **2141** | industrial engineer |
| **2233** | industrial engineering analyst |
| **0211** | industrial engineering department manager |
| **4011** | industrial engineering professor - university |
| **2233** | industrial engineering technician |
| **2233** | industrial engineering technologist |
| **1522** | industrial engines and equipment apprentice |
| **1522** | industrial engines and equipment partsperson - retail |
| **6221** | industrial equipment sales engineer |
| **0432** | industrial fire chief |
| **4312** | industrial firefighter |
| **2122** | industrial forester |
| **7281** | industrial furnace bricklayer |
| **7281** | industrial furnace brickmason |
| **9611** | industrial furnace cleaner - primary metal and mineral products processing |
| **7253** | industrial gas filter-tester |
| **7253** | industrial gas servicer |
| **4169** | industrial geographer |
| **2263** | industrial health officer |
| **7234** | industrial heat exchanger boilermaker |
| **7311** | industrial hoist mechanic |
| **0411** | industrial hygiene and health director - government services |
| **2134** | industrial hygiene engineer |
| **2263** | industrial hygiene inspector |
| **2211** | industrial hygiene technologist |
| **4161** | industrial hygienist |
| **2243** | industrial instrument mechanic |
| **2243** | industrial instrument panel repairer |
| **7612** | industrial instrument repairer helper |
| **2243** | industrial instrument service technician |
| **2243** | industrial instrument technician |
| **2243** | industrial instrumentation and electrical technician |
| **4021** | industrial instrumentation teacher |
| **2243** | industrial instrumentation technician |
| **9418** | industrial knitting needle machine feeder |
| **4112** | industrial lawyer |
| **7361** | industrial locomotive engineer |
| **7301** | industrial machinery assembly foreman/woman |
| **7311** | industrial machinery maintenance mechanic |
| **7301** | industrial machinery manufacturing foreman/woman |
| **7301** | industrial machinery mechanics foreman/woman |
| **7612** | industrial machinery oiler |
| **6221** | industrial machinery sales representative |
| **0714** | industrial maintenance manager |
| **7294** | industrial maintenance painter |
| **9462** | industrial meat chopper |
| **9462** | industrial meat cutter |
| **7311** | industrial mechanic |
| **7311** | industrial mechanic and millwright |
| **7311** | industrial mechanic apprentice |
| **7612** | industrial mechanic helper |
| **7301** | industrial mechanics foreman/woman |
| **7301** | industrial mechanics supervisor |
| **7311** | industrial mechanic-welder |
| **3112** | industrial medical officer |
| **3112** | industrial medicine physician |
| **2114** | industrial meteorologist |
| **7333** | industrial motor winder-repairer |
| **9418** | industrial needle machine setter-operator |
| **9418** | industrial needle machine set-up operator |
| **9418** | industrial needle maker |
| **3012** | industrial nurse |
| **1523** | industrial order completion checking clerk |
| **7281** | industrial oven brickmason |
| **9536** | industrial paint baker |

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| 9536 | industrial paint dipper |
| 9536 | industrial paint finisher |
| 9536 | industrial paint mixer |
| 9536 | industrial paint sprayer operator |
| 9536 | industrial painter |
| 3131 | industrial pharmacist |
| 5221 | industrial photographer |
| 3112 | industrial physician |
| 6733 | industrial plant cleaner |
| 6315 | industrial plant cleaning supervisor |
| 7311 | industrial plant maintenance mechanic |
| 2243 | industrial process control equipment repairer |
| 2252 | industrial products designer |
| 9536 | industrial products painter |
| 4151 | industrial psychologist |
| 7311 | industrial pump repairer |
| 2261 | industrial radiographer |
| 2261 | industrial radiographer - radiotelephony |
| 1121 | industrial relations consultant |
| 4162 | industrial relations economist |
| 0112 | industrial relations manager |
| 1121 | industrial relations officer |
| 2141 | industrial safety engineer |
| 4021 | industrial safety instructor |
| 2263 | industrial safety officer - occupational health and safety |
| 7311 | industrial sewing machine mechanic |
| 9446 | industrial sewing machine operator |
| 7233 | industrial sheet metal worker |
| 6531 | industrial site interpreter |
| 4169 | industrial sociologist |
| 9536 | industrial spray painter |
| 1122 | industrial standards quality auditor |
| 2161 | industrial statistician |
| 9527 | industrial storage battery plate assembler |
| 6221 | industrial supplies sales representative |
| 6221 | industrial supplies salesperson |
| 6411 | industrial tool sales representative |
| 4162 | industrial trade economist |
| 9226 | industrial truck assembly foreman/woman |
| 7334 | industrial truck mechanic |
| 7452 | industrial truck operator |
| 7334 | industrial truck repairer |
| 6345 | industrial upholsterer |
| 1522 | industrial warehouse person |
| 9619 | industrial washing machine tender |
| 2263 | industrial waste control inspector |
| 4161 | industrial waste reduction program co-ordinator |
| 2134 | industrial waste treatment engineer |
| 9243 | industrial waste treatment plant operator |
| 7237 | industrial welder |
| 7301 | industrial, farm and construction machinery mechanics and repairers foreman/woman |
| 0412 | industry, trade and technology director - government services |
| 4021 | industry-based instructor |
| 4021 | industry-based trainer |
| 4214 | infant daycare workers supervisor |
| 3234 | infant transport attendant |
| 4313 | infanteer |
| 0433 | infantry officer |
| 4313 | infantry soldier |
| 4214 | infants' daycare worker |
| 3012 | infection control co-ordinator - hospital |
| 3012 | infection control nurse |
| 3012 | infection control officer - hospital |
| 3012 | infection control officer - medical |
| 3012 | infection surveillance nurse |
| 3111 | infectious disease physician |
| 3111 | infectious disease specialist |
| 3111 | infertility specialist |
| 9537 | inflated ball moulder |
| 6522 | in-flight service manager |
| 2171 | informatics applications analyst |
| 2171 | informatics business analyst |
| 2171 | informatics consultant |
| 2171 | informatics quality assurance (QA) analyst |
| 2171 | informatics security analyst |
| 2171 | informatics security consultant |
| 0124 | information and communications manager |
| 1411 | information and records clerk |
| 5111 | information and reference librarian |
| 6552 | information clerk - customer service |
| 6314 | information clerks supervisor |
| 1123 | information consultant |
| 1123 | information co-ordinator |
| 1414 | information desk clerk |
| 5122 | information editor |
| 1253 | information management technician |
| 1123 | information officer |
| 1414 | information officer - Elections Canada |
| 2172 | information resource analyst |
| 1123 | information service co-ordinator |
| 0124 | information service manager |
| 5111 | information services librarian |
| 2171 | information systems analyst - computer systems |
| 2171 | information systems business analyst |
| 2171 | information systems contingency planner |
| 0213 | information systems development director |
| 0213 | information systems manager |
| 0213 | information systems operations director |
| 2171 | information systems quality assurance (QA) analyst |
| 0015 | information systems vice president - trade, broadcasting and other services |
| 0013 | information systems vice-president - financial, communications and other business services |
| 0016 | information systems vice-president - goods production, utilities, transportation and construction |

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| **0014** | information systems vice-president - health, education, social and community services and membership organizations |
| **2171** | information technology (IT) analyst |
| **2171** | information technology (IT) business analyst |
| **2171** | information technology (IT) consultant |
| **0213** | information technology (IT) development manager |
| **0213** | information technology (IT) implementation manager |
| **0213** | information technology (IT) integration manager |
| **2171** | information technology consulting account manager |
| **4031** | information technology teacher - secondary school |
| **2261** | infrared technician |
| **2261** | infrared tester |
| **2261** | infrared thermographer |
| **2261** | infrared thermography technician |
| **2147** | infrastructure architect - information technology (IT) |
| **9411** | ingot buggy operator |
| **9611** | ingot cladder |
| **9411** | ingot finishing operator |
| **9411** | ingot header |
| **9415** | ingots inspector - primary metal processing |
| **9461** | ingredients scaler and dispenser - food and beverage processing |
| **3214** | inhalation technologist |
| **8231** | in-hole drill operator - underground mining |
| **8411** | in-hole driller helper - underground mining |
| **4112** | in-house legal counsel |
| **1121** | in-house training manager |
| **9422** | injection blow moulding processing operator |
| **9422** | injection molding set-up operator |
| **9422** | injection moulder - plastic manufacturing |
| **9422** | injection moulder operator - plastic manufacturing |
| **9214** | injection moulding foreman/woman - rubber and plastic manufacturing |
| **9422** | injection moulding operator - plastic manufacturing |
| **9422** | injection moulding processing operator |
| **9214** | injection moulding supervisor - plastic products manufacturing |
| **2233** | injection moulding technician |
| **7232** | injection moulding tool and die maker |
| **7232** | injection mouldmaker |
| **9422** | injection operator - plastic manufacturing |
| **9422** | injection plastic moulder |
| **9422** | injection-moulding machine operator - plastic manufacturing |
| **7381** | ink evaluation and press operator - printing |
| **7381** | ink evaluation pressman/woman - printing |
| **9619** | ink fountain cleaner - printing |
| **9421** | ink matcher |
| **9421** | ink purifier |
| **5136** | ink sketcher |
| **2273** | inland navigation mate |
| **9532** | inlayer - furniture and fixures manufacturing |
| **5254** | inline skating instructor |
| **0632** | inn manager |
| **0632** | inn operator |
| **9214** | inner tube building foreman/woman |
| **9214** | inner tube building supervisor |
| **9615** | inner tube checker - rubber products manufacturing |
| **9423** | inner tube finisher - rubber products manufacturing |
| **9615** | inner tube inserter - rubber products manufacturing |
| **9615** | inner tube repairer - rubber products manufacturing |
| **9423** | inner tube skiver - rubber products manufacturing |
| **9423** | inner tube sorter - rubber reclaiming |
| **9423** | inner tube valve builder |
| **9423** | inner tube vulcanizer tender - rubber products manufacturing |
| **9423** | inner-tube-processing equipment tender - rubber products manufacturing |
| **0632** | innkeeper |
| **2112** | inorganic chemist |
| **3111** | inpatient physician |
| **9522** | in-process assembly inspector - automobile assembly |
| **9524** | in-process inspector - electric equipment manufacturing |
| **1423** | input compositor - typesetting |
| **1423** | input operator - typesetting |
| **0411** | inquiries and services chief - employment insurance |
| **2121** | insect physiologist |
| **5112** | insectarium conservator |
| **5112** | insectarium curator |
| **5212** | insectarium interpreter |
| **9421** | insecticide mixer |
| **9619** | inserter - printing |
| **9473** | inserting machine operator - printing |
| **1511** | inserting machine tender - mail and postal services |
| **8262** | inshore fisherman/woman |
| **9619** | insole filler - footwear manufacturing |
| **9537** | insole tape machine operator |
| **9537** | insole-moulding machine operator |
| **9537** | insole-moulding machine tender |
| **9537** | insole-tacking machine operator |
| **9447** | inspecting machine tender - textiles |
| **9211** | inspecting, testing and grading foreman/woman - primary metal and mineral products processing |
| **9217** | inspection foreman/woman - textile processing |

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| **0413** | inspection services director - education |
| **4423** | inspector - by-law enforcement |
| **4166** | inspector - education |
| **9524** | inspector - electrical appliance assembly |
| **9523** | inspector - electronic equipment manufacturing |
| **9447** | inspector - fabric products manufacturing |
| **9447** | inspector - fur products manufacturing |
| **9532** | inspector - furniture manufacturing |
| **9525** | inspector - large transformer manufacturing |
| **6741** | inspector - laundry and dry cleaning |
| **9415** | inspector - metal processing |
| **4423** | inspector - municipal law enforcement |
| **9415** | inspector - primary metal and mineral products processing |
| **9523** | inspector - printed circuit board fabrication |
| **9447** | inspector - textiles |
| **9436** | inspector - wood processing |
| **1435** | inspector and bill collector - electric power company |
| **1435** | inspector and bill collector - gas company |
| **9525** | inspector and tester, AC and DC motors |
| **9527** | inspector and tester, battery case - electrical equipment manufacturing |
| **0012** | inspector general of financial institutions |
| **2222** | inspector of perishable goods |
| **9525** | inspector, AC (alternating current) and DC (direct current) motors |
| **9526** | inspector, agricultural implements assembly |
| **9532** | inspector, assembled furniture |
| **9524** | inspector, carbon brushes - electrical equipment manufacturing |
| **9522** | inspector, cars - motor vehicle manufacturing |
| **9525** | inspector, electrical control panel |
| **9524** | inspector, electrical controls assembly |
| **9527** | inspector, electrical dry battery |
| **9527** | inspector, electrical light bulbs |
| **9525** | inspector, electrical switchboards and panels |
| **9525** | inspector, electrical switchgear panel |
| **9526** | inspector, farm implements assembly |
| **9615** | inspector, golf balls - rubber products manufacturing |
| **9217** | inspector, grader, sampler and tester foreman/woman - fabric, fur and leather products manufacturing |
| **9526** | inspector, motor vehicle clutch assembly |
| **9537** | inspector, projector assembly |
| **9537** | inspector, purchased metal parts |
| **9423** | inspector, rubber products manufacturing |
| **9533** | inspector, wooden boxes |
| **9533** | inspector, wooden staves |
| **7314** | inspector-carman/woman - railway |
| **9222** | inspectors and testers foreman/woman - electronic equipment fabrication, assembly, installation and repair |
| **9423** | inspector-trimmer, moulded rubber products |
| **7246** | installation and repair technician - telecommunications |
| **7202** | installation foreman/woman - telecommunications |
| **7247** | installation service technician - cable television |
| **0131** | installation superintendent - telecommunications |
| **9523** | installer - electronic equipment manufacturing |
| **7246** | installer - telecommunications |
| **2242** | installer and repairer - household and business equipment |
| **7612** | installer helper - telecommunications |
| **9619** | installer helper, protective signalling - manufacturing |
| **7441** | installer, residential doors |
| **9522** | installer, transmissions - motor vehicle manufacturing |
| **7202** | installers and repairers foreman/woman - telecommunications |
| **1435** | instalment collector |
| **9461** | instant coffee dryer |
| **9461** | instant coffee extractor operator |
| **9461** | instant powdered foods equipment operator |
| **4021** | institute of technology teacher |
| **7241** | institution electrician |
| **4422** | institution guard - correctional service |
| **3413** | institutional aide |
| **6322** | institutional cook |
| **6411** | institutional food services sales representative |
| **4413** | instructional assistant - primary and secondary school |
| **4021** | instructor - business college |
| **4021** | instructor - commercial college |
| **4021** | instructor - company |
| **4021** | instructor - industry |
| **4021** | instructor - language school |
| **4021** | instructor - private training institute |
| **4021** | instructor - technical school |
| **4021** | instructor - technology institute |
| **4021** | instructor - vocational school |
| **4215** | instructor of persons with a mobility impairment |
| **4215** | instructor of persons who are blind |
| **4215** | instructor of persons who are deaf |
| **4215** | instructor of persons who are hard of hearing |
| **4215** | instructor of persons with a learning disability |
| **4215** | instructor of persons with a visual impairment |
| **4215** | instructor of persons with developmental disabilities |
| **4215** | instructor of persons with disabilities |
| **4215** | instructor of persons with intellectual disabilities |
| **4215** | instructor of persons with special needs |

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| **9522** | instrument cluster assembler - motor vehicle manufacturing |
| **2272** | instrument flight rules air traffic controller |
| **2244** | instrument inspector and tester - avionics |
| **2243** | instrument maintenance mechanic |
| **2254** | instrument man/woman - surveying |
| **2244** | instrument mechanic - avionics |
| **2243** | instrument mechanic - utilities |
| **2244** | instrument overhaul and repair mechanic - avionics |
| **2244** | instrument overhaul technician - avionics |
| **9522** | instrument panel assembler - automobile assembly |
| **9522** | instrument panel electrical tester - motor vehicle manufacturing |
| **7445** | instrument salvage inspector |
| **2244** | instrument shop inspector - avionics |
| **3414** | instrument sterilizer - medical |
| **5133** | instrumental music teacher - private, conservatory or studio lessons |
| **5133** | instrumental musician |
| **5133** | instrumentalist |
| **2133** | instrumentation and control engineer |
| **2133** | instrumentation engineer |
| **2244** | instruments and accessories inspector - avionics |
| **7205** | insulating contractor |
| **9537** | insulating panel maker |
| **9537** | insulating tube winder |
| **7293** | insulation applicator |
| **9537** | insulation batt cutter operator |
| **9537** | insulation blanket maker |
| **7611** | insulation blower |
| **7611** | insulation blower helper |
| **7611** | insulation blower operator |
| **9434** | insulation board press tender |
| **7205** | insulation contractor |
| **9524** | insulation cutter and former - electrical equipment manufacturing |
| **7205** | insulation foreman/woman |
| **7611** | insulation hoseman/woman |
| **7293** | insulation installer |
| **9524** | insulation installer - electrical equipment manufacturing |
| **9418** | insulation machine operator |
| **9414** | insulation mat machine operator - stone products |
| **7293** | insulation mechanic |
| **9611** | insulation packer - mineral products manufacturing |
| **9615** | insulation packer - rubber products manufacturing |
| **6411** | insulation salesperson - wholesale |
| **7205** | insulation specialists foreman/woman |
| **7205** | insulation supervisor |
| **7293** | insulator |
| **7293** | insulator apprentice |
| **9414** | insulator builder - clay products |
| **7611** | insulator helper |
| **9619** | insulator tester |
| **7205** | insulators foreman/woman |
| **2161** | insurance actuary |
| **1312** | insurance adjuster |
| **6231** | insurance agent |
| **6231** | insurance agent supervisor |
| **1314** | insurance appraiser |
| **0121** | insurance benefits executive director |
| **6231** | insurance broker |
| **0121** | insurance claims service manager |
| **1434** | insurance clerk - financial sector |
| **0013** | insurance company general manager |
| **1312** | insurance inspector |
| **4211** | insurance law clerk |
| **4112** | insurance lawyer |
| **1242** | insurance legal assistant |
| **2262** | insurance loss prevention inspector |
| **0121** | insurance manager |
| **0121** | insurance managing director |
| **4211** | insurance paralegal |
| **1435** | insurance premium collector |
| **1434** | insurance rater |
| **1313** | insurance rating analyst |
| **0121** | insurance regional manager |
| **6231** | insurance sales agent |
| **0121** | insurance sales district manager |
| **0121** | insurance sales manager |
| **6231** | insurance sales representative |
| **6231** | insurance sales supervisor |
| **6231** | insurance salesman/woman |
| **1313** | insurance underwriter |
| **7381** | intaglio printer - printing |
| **7381** | intaglio printing press operator |
| **4152** | intake worker - social services |
| **9222** | integrated circuit (IC) fabrication supervisor - electronic equipment manufacturing |
| **9523** | integrated circuit assembler |
| **0731** | integrated logistics manager |
| **9222** | integrated-circuit-board fabrication supervisor - electronic equipment manufacturing |
| **0213** | Integration manager - computer systems |
| **9613** | integrator operator |
| **1228** | integrity services investigator - government services |
| **1228** | integrity services investigator - Service Canada |
| **1228** | integrity services officer - government services |
| **1228** | integrity services officer - Service Canada |
| **4212** | intellectual disabilities worker |
| **4112** | intellectual-property lawyer |
| **4168** | intelligence analyst - security |
| **4168** | intelligence officer - security |
| **4168** | intelligence operator - security |

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|---|---|
| 3012 | intensive care nurse |
| 3012 | intensive care unit (ICU) nurse |
| 2171 | interactive media consultant |
| 5241 | interactive media designer |
| 2174 | interactive media developer |
| 2174 | interactive media programmer |
| 5121 | interactive media writer |
| 1114 | interbanking arrangements officer |
| 7512 | intercity bus driver |
| 1434 | interest clerk |
| 4161 | interface ergonomist |
| 0414 | intergovernmental affairs chief |
| 0414 | intergovernmental affairs director |
| 4168 | intergovernmental affairs officer |
| 0414 | intergovernmental relations chief |
| 0414 | intergovernmental relations director |
| 7611 | interior and exterior wall erector helper |
| 5242 | interior decorating consultant |
| 5242 | interior decorator |
| 5242 | interior design consultant |
| 5242 | interior design project manager |
| 4021 | interior design teacher |
| 5242 | interior design technician |
| 5242 | interior designer |
| 5242 | interior designer assistant |
| 7284 | interior drywall installer |
| 7271 | interior finish carpenter |
| 7271 | interior finish joiner |
| 7611 | interior finisher helper |
| 9522 | interior finishing assembler - automobile assembly |
| 2225 | interior plantscape specialist |
| 8432 | interior plantscaper |
| 8255 | interior plantscaping contractor |
| 5242 | interior space designer |
| 7271 | interior systems carpenter |
| 9526 | interior trailer finisher |
| 9522 | interior trim assembler - automobile assembly |
| 7271 | interior trimmer carpenter |
| 7611 | interior wall finisher helper |
| 1451 | interlibrary loan clerk |
| 7531 | interlocking cabin switcher - railway yard |
| 7205 | interlocking paving stone contractor |
| 7441 | interlocking paving stone installer |
| 7531 | interlocking signal box switcher - railway yard |
| 7441 | interlocking stone installer |
| 1111 | intermediate accountant |
| 3234 | intermediate care paramedic |
| 3112 | intern |
| 3231 | intern optician |
| 3131 | intern pharmacist |
| 4151 | intern psychologist |
| 0111 | internal audit manager |
| 1111 | internal audit project manager |
| 0111 | internal audit services manager |
| 1111 | internal audit supervisor - finances |
| 1111 | internal auditor |
| 1111 | internal auditor - finances |
| 1111 | internal auditors supervisor - finances |
| 9526 | internal combustion engine assembler |
| 2132 | internal combustion engineer |
| 3111 | internal medicine specialist |
| 4164 | international aid and development project officer |
| 4164 | international aid and development researcher |
| 0122 | international banking manager |
| 0013 | international banking operations vice-president |
| 4163 | international development and assistance researcher |
| 1414 | international exchange operator - telephone system |
| 4163 | international marketing specialist |
| 0423 | international program director - cooperative |
| 0414 | international relations chief - government |
| 0414 | international relations director - government |
| 4164 | international relations specialist |
| 5231 | international service announcer-producer |
| 4033 | international student adviser |
| 4162 | international trade economist |
| 0412 | international trade policy assistant director - government services |
| 0412 | international trade policy manager - government services |
| 0731 | international traffic manager |
| 0631 | Internet café manager |
| 0124 | Internet communications manager |
| 5241 | Internet graphic designer |
| 2171 | Internet security analyst |
| 2175 | Internet site designer |
| 2175 | Internet site developer |
| 0124 | Internet site manager |
| 0213 | Internet systems administrator |
| 2281 | Internet Web site technician |
| 3111 | internist |
| 5134 | interpretative dancer |
| 2121 | interpretative naturalist |
| 5125 | interpreter |
| 5125 | interpreter for persons who are deaf |
| 1422 | interpreting machine operator - data entry |
| 5134 | interpretive dancer |
| 5212 | interpretive guide - museum |
| 0414 | interprovincial relations chief |
| 1423 | Intertype machine operator |
| 1423 | Intertype operator |
| 1454 | interview clerk |
| 1223 | interviewer - human resources |
| 1454 | interviewer - survey or poll |
| 2175 | Intranet site designer |
| 2175 | Intranet site developer |
| 3411 | intra-oral dental assistant |

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|---|---|
| 5136 | Inuit art sculptor |
| 1524 | inventory analyst |
| 1524 | inventory auditor |
| 1524 | inventory clerk |
| 1215 | inventory clerks supervisor |
| 1524 | inventory control clerk |
| 0114 | inventory control manager |
| 1215 | inventory control supervisor |
| 2233 | inventory control technician |
| 1215 | inventory management officer |
| 0114 | inventory manager |
| 1524 | inventory planner |
| 2121 | invertebrate zoologist |
| 5112 | invertebrate zoology curator |
| 5112 | invertebrate zoology museum curator |
| 6541 | investigations officer - postal service |
| 0431 | investigative inspector - police |
| 5123 | investigative reporter |
| 4311 | investigator - police |
| 1114 | investment advisor - personal finances |
| 1112 | investment analyst |
| 1113 | investment broker |
| 9412 | investment caster - foundry |
| 1431 | investment clerk |
| 1112 | investment consultant |
| 1114 | investment counsellor - personal finances |
| 1113 | investment dealer |
| 0121 | investment director - financial brokerage |
| 4162 | investment economist |
| 0122 | investment manager - bank or trust company |
| 0122 | investment manager - banking, credit and investment |
| 0121 | investment manager - financial brokerage |
| 1113 | investment representative |
| 0111 | investments research director |
| 1524 | invoice and purchase order checker |
| 1431 | invoice clerk |
| 1524 | invoice control clerk |
| 9231 | ion exchange operator |
| 3232 | iridologist |
| 8613 | Irish moss gatherer |
| 7237 | iron brazer |
| 9412 | iron caster - foundry |
| 9412 | iron moulder - foundry |
| 9411 | iron ore pellet agglomerating attendant |
| 9415 | iron pellet hardness tester - metal processing |
| 7236 | iron structure erector |
| 6741 | ironer - laundry and dry cleaning |
| 7201 | ironwork contractor |
| 7201 | ironwork supervisor |
| 7236 | ironworker |
| 7236 | ironworker - metal building systems erector |
| 7236 | ironworker - ornamental |
| 7236 | ironworker - reinforcing rebar |
| 7236 | ironworker apprentice |
| 7236 | ironworker generalist |
| 7611 | ironworker helper |
| 7201 | ironworkers foreman/woman |
| 2131 | irrigation and drainage engineer |
| 2123 | irrigation consultant - agriculture |
| 0912 | irrigation district manager |
| 2131 | irrigation engineer |
| 2264 | irrigation inspector - construction |
| 8252 | irrigation supervisor - agriculture |
| 7441 | irrigation system installer |
| 7441 | irrigation technician - installation and maintenance |
| 2225 | irrigation technician (except agriculture) |
| 8431 | irrigation worker - agriculture |
| 8431 | irrigator - agriculture |
| 1122 | ISO consultant |
| 2171 | IT (information technology) consultant |
| 0213 | IT (information technology) integration manager |
| 4031 | Italian teacher - secondary school |
| 8231 | ITH (in-the-hole) driller |
| 4212 | itinerant support service worker |

## J

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|---|---|
| 9614 | jack ladder tender |
| 8231 | jack leg drill operator - underground mining |
| 7452 | jack lift operator |
| 8411 | jack operator - underground mining |
| 5243 | jacket designer |
| 9447 | jacket manufacturing inspector |
| 7611 | jackhammer operator - construction |
| 9442 | jacquard card cutter - textiles |
| 9442 | jacquard card lacer - textiles |
| 9442 | jacquard card-cutting machine operator - textiles |
| 9442 | jacquard card-lacing machine operator - textiles |
| 7311 | jacquard loom fixer - textile manufacturing |
| 9442 | jacquard loom heddles tier |
| 9442 | jacquard loom knitter |
| 9442 | jacquard loom pattern changer |
| 7311 | jacquard loom setter - textile manufacturing |
| 9442 | jacquard loom weaver |
| 9442 | jacquard machine knitter |
| 9442 | jacquard machine operator |
| 4422 | jail guard |
| 4422 | jailer |
| 9213 | jam and jelly processing foreman/woman |
| 9461 | jam processor operator |
| 6733 | janitor |
| 6315 | janitor supervisor |
| 0651 | janitorial services manager |
| 6411 | janitorial services sales representative |
| 5251 | javelin thrower |
| 6722 | J-bar attendant |
| 6722 | J-bar operator |
| 9442 | jersey knitter |

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|---|---|
| **6344** | jewel setter |
| **6344** | jeweller |
| **9227** | jewellery and silverware manufacturing worker foreman/woman |
| **9537** | jewellery annealer |
| **6344** | jewellery appraiser |
| **9537** | jewellery assembler |
| **9537** | jewellery assembly inspector |
| **9227** | jewellery assembly supervisor |
| **9537** | jewellery case assembler |
| **6344** | jewellery chaser |
| **9537** | jewellery cleaner |
| **5243** | jewellery designer |
| **7232** | jewellery die cutter |
| **7232** | jewellery die sinker |
| **5244** | jewellery engraver |
| **9537** | jewellery filer |
| **6344** | jewellery hammersmith |
| **9537** | jewellery inspector |
| **9227** | jewellery manufacturing foreman/woman |
| **6344** | jewellery model maker |
| **6344** | jewellery moulder |
| **9537** | jewellery parts assembler |
| **9619** | jewellery pickler and dipper |
| **9537** | jewellery polisher |
| **6344** | jewellery repairer |
| **9227** | jewellery repairing foreman/woman - manufacturing |
| **6344** | jewellery repairman/woman |
| **9537** | jewellery riveter |
| **6421** | jewellery salesperson |
| **6421** | jewellery salesperson - retail |
| **6344** | jewellery sample maker |
| **9537** | jewellery solderer |
| **0621** | jewellery store manager |
| **9537** | jewellery strip roller |
| **9537** | jewellery turner |
| **9537** | jewellery wire finisher |
| **9537** | jewellery-soldering machine tender |
| **7371** | jib crane operator |
| **7232** | jig and form maker |
| **7272** | jig builder - wood products manufacturing |
| **9417** | jig grinder set-up operator |
| **7232** | jig maker |
| **7232** | jig maker - die casting and plastic moulding |
| **7232** | jig maker - metal products manufacturing |
| **9441** | jig operator - textile manufacturing |
| **7237** | jig welder-fitter |
| **7232** | jig-bore tool maker |
| **9414** | jigger operator - clay products |
| **9441** | jigger operator - textile manufacturing |
| **9611** | jigger operator helper - mineral products processing |
| **9414** | jiggerman/woman - clay products |
| **9437** | jigsaw operator - woodworking |
| **7452** | jitney driver - material handling |
| **1121** | job analyst |
| **1121** | job and wage analyst |
| **1121** | job classification system analyst |
| **4215** | job coach for persons with disabilities |
| **1423** | job compositor - typesetting |
| **4156** | job counsellor |
| **4156** | job counsellor - government services |
| **4164** | job creation and employment services evaluation officer |
| **1121** | job evaluation analyst |
| **0112** | job evaluation and salary research manager |
| **1121** | job evaluation supervisor |
| **1121** | job evaluator |
| **9412** | job moulder - foundry |
| **1215** | job order clerks supervisor - manufacturing |
| **7381** | job printer |
| **4156** | job search trainer |
| **0411** | job training director - government services |
| **9412** | jobbing coremaker |
| **9412** | jobbing moulder |
| **5251** | jockey |
| **6722** | jockey helper |
| **6722** | jockey room custodian |
| **6722** | jockey valet |
| **9619** | jogger - printing |
| **7611** | joiner helper - construction |
| **9446** | joiner sewing machine operator |
| **9414** | joint sawyer - concrete, clay and stone products |
| **9437** | jointer - woodworking |
| **9437** | jointer operator - woodworking |
| **9434** | jointer tender - wood processing |
| **9437** | jointing machine operator - woodworking |
| **9414** | jollier - clay products |
| **7531** | journal box greaser - railway yard |
| **5122** | journal editor |
| **1431** | journal entry audit clerk |
| **1431** | journal entry clerk |
| **4011** | journalism professor - university |
| **4021** | journalism teacher - college level |
| **5123** | journalist |
| **7234** | journeyman/woman boilermaker |
| **7281** | journeyman/woman bricklayer |
| **7281** | journeyman/woman brickmason |
| **7272** | journeyman/woman cabinetmaker |
| **7271** | journeyman/woman carpenter |
| **7282** | journeyman/woman cement finisher |
| **7241** | journeyman/woman construction electrician |
| **6322** | journeyman/woman cook |
| **7284** | journeyman/woman drywall installer |
| **7318** | journeyman/woman elevator constructor |
| **7318** | journeyman/woman elevator mechanic |
| **7295** | journeyman/woman floor covering installer |
| **7295** | journeyman/woman floor mechanic |
| **7253** | journeyman/woman gas fitter |
| **7292** | journeyman/woman glazier |
| **7312** | journeyman/woman heavy-duty equipment mechanic |

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| 7242 | journeyman/woman industrial electrician |
| 7311 | journeyman/woman industrial mechanic |
| 7293 | journeyman/woman insulator |
| 7236 | journeyman/woman ironworker |
| 7284 | journeyman/woman lather |
| 7245 | journeyman/woman lineman/woman - telecommunications |
| 7231 | journeyman/woman machinist |
| 7281 | journeyman/woman mason |
| 7322 | journeyman/woman motor vehicle body repairer |
| 7294 | journeyman/woman painter and decorator |
| 7252 | journeyman/woman pipefitter |
| 7284 | journeyman/woman plasterer |
| 7251 | journeyman/woman plumber |
| 7313 | journeyman/woman refrigeration and air conditioning mechanic |
| 7236 | journeyman/woman reinforcing ironworker |
| 7291 | journeyman/woman roofer |
| 7233 | journeyman/woman sheet metal worker |
| 7252 | journeyman/woman sprinkler system installer |
| 7252 | journeyman/woman steamfitter-pipefitter |
| 7281 | journeyman/woman stonemason |
| 7283 | journeyman/woman tilesetter |
| 7232 | journeyman/woman tool and die maker |
| 7373 | journeyman/woman water well driller |
| 7237 | journeyman/woman welder |
| 4111 | judge - law |
| 5253 | judge, sport competitions |
| 1227 | judicial administrator |
| 4112 | judicial assistant - Supreme Court |
| 1416 | judicial clerk |
| 1227 | judicial court administrator |
| 1227 | judicial officer |
| 1227 | judicial officer - courts |
| 1227 | judicial services administrator |
| 5254 | judo instructor |
| 5251 | judoka |
| 5232 | juggler |
| 9617 | juice blender |
| 5254 | jujitsu instructor |
| 7445 | juke box mechanic |
| 9411 | jumbo casting operator - zinc melting |
| 8231 | jumbo drill operator |
| 8231 | jumbo drill operator - underground mining |
| 8411 | jumbo drill operator helper - underground mining |
| 9431 | jumbo operator - sawmill |
| 8411 | jumbo operator helper - underground mining |
| 5251 | jumper |
| 9414 | junction maker - concrete, clay and stone products |
| 6332 | junior baker |
| 1431 | junior billing clerk |
| 2274 | junior engineer - water transport |
| 2234 | junior estimator - construction |
| 1112 | junior financial analyst |
| 8221 | junior foreman/woman - mining |
| 4032 | junior high school teacher |
| 5252 | junior hockey coach |
| 1431 | junior invoice clerk |
| 1411 | junior office clerk |
| 1313 | junior underwriter - insurance |
| 5125 | jurilinguist translator |
| 4111 | justice |
| 1227 | justice of the peace |
| 4111 | juvenile court judge |

## K

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|---|---|
| 5254 | karate instructor |
| 6563 | kennel attendant |
| 6563 | kennel keeper |
| 0651 | kennel manager |
| 0821 | kennel operator |
| 6563 | kennelman/woman |
| 6533 | keno dealer |
| 6533 | keno runner - casino |
| 6533 | keno writer |
| 9461 | ketchup maker |
| 9411 | kettle charger |
| 9421 | kettle operator - chemical processing |
| 9421 | kettle tender - chemical processing |
| 9411 | kettle tender - primary metal processing |
| 9441 | kettle tender - textile manufacturing |
| 9461 | kettleman/woman - food processing |
| 0601 | key accounts manager - sales |
| 5226 | key dresser |
| 5226 | key grip |
| 6211 | key holder - retail store |
| 1423 | keyboard operator - typesetting |
| 5133 | keyboardist |
| 9417 | keyseater operator |
| 9417 | keyseater set-up operator |
| 9417 | keyseating machine operator |
| 5252 | kickboxing trainer |
| 3219 | kidney dialysis technician |
| 3219 | kidney dialysis technologist |
| 9441 | kier-boiler tender - textile manufacturing |
| 9611 | kiln cleaner - primary metal and mineral products processing |
| 9611 | kiln door builder - mineral products processing |
| 9414 | kiln fireman/woman - clay products |
| 9611 | kiln labourer |
| 9611 | kiln labourer - primary metal and mineral products processing |
| 9611 | kiln operator helper - mineral products manufacturing |
| 9461 | kiln operator, malt house - food and beverage processing |
| 7281 | kiln repair bricklayer |
| 9211 | kiln workers foreman/woman - clay products |

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| **9414** | kilnman/woman - clay products |
| **9432** | kiln-recaust operator - pulp and paper |
| **3144** | kinanthropologist |
| **4032** | kindergarten teacher |
| **3144** | kinesiologist |
| **3237** | kinesitherapist |
| **4411** | kinship care provider |
| **4411** | kinship caregiver |
| **6552** | kiosk information clerk |
| **6421** | kiosk sales clerk |
| **7441** | kitchen cabinet installer |
| **7441** | kitchen cupboard and vanity installer |
| **5242** | kitchen designer |
| **6711** | kitchen helper |
| **6311** | kitchen manager |
| **7441** | kitchen unit installer |
| **9537** | knife assembler |
| **9418** | knife blade polisher |
| **9537** | knife inspector |
| **9447** | knitted fabric inspector |
| **9616** | knitted fabric turner |
| **9442** | knitter - textiles |
| **9616** | knitter helper |
| **9217** | knitting - textile processing foreman/woman |
| **9442** | knitting area patroller - textiles |
| **9217** | knitting foreman/woman |
| **9447** | knitting inspector |
| **7311** | knitting machine adjuster - textile manufacturing |
| **7311** | knitting machine fixer - textile manufacturing |
| **7311** | knitting machine mechanic |
| **9442** | knitting machine operator |
| **7311** | knitting machine setter - textile manufacturing |
| **9442** | knitting machine tender |
| **7311** | knitting pattern setter - textile manufacturing |
| **9217** | knitting supervisor |
| **9217** | knitting supervisor - textile processing |
| **9442** | knotting machine operator - textiles |
| **9418** | knurling machine feeder |
| **6322** | kosher foods cook |
| **9465** | kosher inspector - food and beverage processing |

## L

| | |
|---|---|
| **3233** | L.P.N. (licensed practical nurse) |
| **9523** | lab technician, wafer fabrication - electronic equipment manufacturing |
| **9619** | label brander |
| **9617** | label coder - food and beverage processing |
| **9435** | label cutter - paper converting |
| **9619** | label heat tacker |
| **9433** | label operator - papermaking |
| **9471** | label printer |
| **9537** | label-cutting machine tender |
| **6563** | laboratory animal attendant |
| **6563** | laboratory animal care worker |
| **3213** | laboratory animal technician |
| **3213** | laboratory animal technologist |
| **3114** | laboratory animal veterinarian |
| **2211** | laboratory assistant - applied chemistry |
| **3212** | laboratory assistant - medical |
| **2112** | laboratory chemist |
| **4012** | laboratory demonstrator - post-secondary teaching assistance |
| **0212** | laboratory director |
| **6732** | laboratory equipment cleaner |
| **7441** | laboratory equipment installer |
| **6732** | laboratory facilities cleaner |
| **7441** | laboratory furnishings installer |
| **2121** | laboratory immunologist |
| **0212** | laboratory manager |
| **4012** | laboratory supervisor - post-secondary teaching assistant |
| **3212** | laboratory technician - medical |
| **2212** | laboratory technician - metallurgy |
| **4011** | laboratory technology professor - university |
| **2211** | laboratory tester |
| **2211** | laboratory tester - pulp and paper |
| **8614** | labour - mining exploration |
| **1121** | labour adjudicator |
| **4164** | labour affairs officer - labour policy |
| **2263** | labour affairs officer - occupational health and safety |
| **0411** | labour demand analysis chief - government services |
| **4162** | labour economist |
| **1223** | labour force consultant |
| **4165** | labour force planning consultant - health sector |
| **4211** | labour law clerk |
| **1242** | labour law legal assistant |
| **4211** | labour law paralegal |
| **4112** | labour lawyer |
| **0412** | labour market analysis director - government services |
| **4164** | labour market analyst |
| **4162** | labour market information analyst |
| **4156** | labour market information consultant |
| **4164** | labour market information officer |
| **4164** | labour market policy officer |
| **4164** | labour mobility policy consultant |
| **1121** | labour organization agent |
| **1121** | labour organization business agent |
| **1121** | labour organization business representative |
| **1121** | labour organization liaison officer |
| **0423** | labour organization manager |
| **1121** | labour organization negotiator |
| **0014** | labour organization president |
| **1121** | labour organizer |
| **4164** | labour policy analyst |
| **4164** | labour policy officer |

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| **0411** | labour regional director - government services |
| **1121** | labour relations board officer |
| **1415** | labour relations clerk |
| **4168** | labour relations commission officer |
| **1121** | labour relations consultant |
| **1121** | labour relations co-ordinator |
| **0112** | labour relations director |
| **0112** | labour relations manager |
| **1121** | labour relations officer |
| **1121** | labour relations returning officer |
| **1121** | labour relations specialist |
| **4164** | labour standards analyst |
| **2263** | labour standards officer |
| **2263** | labour standards officer - occupational health and safety |
| **1121** | labour union business agent |
| **1121** | labour union liaison officer |
| **9613** | labourer - chemical processing |
| **9617** | labourer - food and beverage processing |
| **9613** | labourer - gas utility |
| **7452** | labourer - material handling |
| **9612** | labourer - metal fabrication |
| **9611** | labourer - metallurgy |
| **9611** | labourer - mineral and metal processing |
| **9619** | labourer - packaging |
| **9619** | labourer - packaging company |
| **9615** | labourer - plastic products manufacturing |
| **9611** | labourer - primary metal and mineral products processing |
| **9619** | labourer - printing |
| **9614** | labourer - pulp and paper |
| **9615** | labourer - rubber products manufacturing |
| **7621** | labourer - sanitary service |
| **9618** | labourer - shellfish processing |
| **9619** | labourer - shoe manufacturing |
| **9619** | labourer - tannery |
| **9616** | labourer - textile processing |
| **7452** | labourer - warehousing and storage |
| **9614** | labourer - wood processing |
| **7621** | labourer crew leader - public works |
| **9619** | labourer, boat assembly |
| **9619** | labourer, electrical appliance manufacturing |
| **9619** | labourer, electrical products manufacturing |
| **9619** | labourer, furrier shop |
| **9612** | labourer, metal polishing-plating |
| **9614** | labourer, paper converting |
| **9617** | labourer, syrup-processing plant |
| **9616** | labourer, woollen mill |
| **9617** | labourer, yeast-processing plant |
| **9617** | labourers - food and beverage processing |
| **7302** | labourers and other elemental workers foreman/woman - construction |
| **9211** | labourers foreman/woman - primary metal and mineral products processing |
| **9442** | lace weaver |
| **5244** | lace weaver - arts and crafts |
| **9619** | lacer - footwear manufacturing |
| **9619** | lacer - sporting goods manufacturing |
| **9421** | lacquer maker |
| **9536** | lacquer-sprayer |
| **5252** | lacrosse coach |
| **5252** | lacrosse scout |
| **9437** | lacrosse stick bender - woodworking |
| **9437** | lacrosse stick gouger - woodworking |
| **9537** | lacrosse stick lacer |
| **9437** | lacrosse stick maker - woodworking |
| **9437** | lacrosse stick planer - woodworking |
| **9437** | lacrosse stick shaper - woodworking |
| **5252** | lacrosse team coach |
| **7371** | ladle crane operator |
| **9411** | ladle operator - primary metal processing |
| **9411** | ladle pourer |
| **9411** | ladle pourer - primary metal processing |
| **7281** | ladle repair bricklayer |
| **9437** | lag bolt machine tender - woodworking |
| **7531** | lag bolter operator - railway |
| **8431** | lamb feedlot worker |
| **9465** | lamb grader |
| **9415** | laminated asbestos products inspector |
| **9533** | laminated beam inspector |
| **9437** | laminated bowl machine tender - woodworking |
| **9525** | laminated core assembler - industrial electrical equipment |
| **9224** | laminating foreman/woman |
| **9224** | laminating foreman/woman - furniture and fixtures manufacturing |
| **9473** | laminating machine operator |
| **9433** | laminating machine operator - paper mill |
| **9473** | laminating machine operator - printing |
| **9423** | laminating machine operator - rubber products manufacturing |
| **9435** | laminating machine tender - paper converting |
| **9422** | laminating machine tender - plastic manufacturing |
| **9423** | laminating machine tender - rubber products manufacturing |
| **9437** | laminating press tender - woodworking |
| **9525** | lamination stacker - industrial electrical equipment |
| **9527** | lamination-stacking machine tender - electrical equipment manufacturing |
| **9527** | lamp filament processor |
| **8411** | lamp keeper - underground mining |
| **9227** | lamp shade fabrication foreman/woman |
| **9537** | lampshade assembler |
| **9537** | lampshade maker |
| **9537** | lampshade sewer |
| **2281** | LAN (local area network) administrator |
| **2281** | LAN (local area network) manager |
| **2281** | LAN (local area network) operator |
| **2281** | LAN (local area network) technician |

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| 1225 | land agent |
| 0125 | land contracts manager |
| 2131 | land drainage engineer |
| 2255 | land information system (LIS) technician |
| 2255 | land information system (LIS) technologist |
| 1225 | land negotiator |
| 1227 | land registrar |
| 1452 | land registry clerk |
| 2154 | land survey supervisor |
| 2254 | land survey technician |
| 2254 | land survey technologist |
| 2154 | land surveying party chief |
| 2154 | land surveyor |
| 4211 | land titles clerk |
| 4211 | land titles examiner |
| 4162 | land use economist |
| 2153 | land use planner |
| 2153 | land use specialist |
| 2231 | land use technician |
| 8442 | land-based seal hunter |
| 8442 | land-based sealer |
| 0912 | landfill manager |
| 9613 | landfill scale operator |
| 9212 | landfill supervisor |
| 9613 | landfill weigh scale attendant |
| 8421 | landing bucker - logging |
| 8421 | landingman/woman |
| 8421 | landingman/woman - logging |
| 1224 | landlord/landlady |
| 1225 | landman/woman - oil and gas |
| 2152 | landscape architect |
| 2225 | landscape architectural technician |
| 2225 | landscape architectural technologist |
| 0212 | landscape architecture manager |
| 8255 | landscape design contractor |
| 2225 | landscape designer |
| 2225 | landscape gardener |
| 8612 | landscape gardener helper |
| 8612 | landscape gardening helper |
| 2225 | landscape horticulturist |
| 8612 | landscape labourer |
| 8255 | landscape maintenance contractor |
| 5136 | landscape painter |
| 8255 | landscape service contractor |
| 2225 | landscape technician |
| 8612 | landscape worker |
| 2225 | landscaper |
| 8255 | landscaping contractor |
| 8255 | landscaping foreman/woman |
| 4021 | landscaping instructor |
| 8255 | landscaping supervisor |
| 4166 | language assessor |
| 4166 | language assessor - education |
| 4021 | language instructor - language school |
| 4021 | language laboratory teacher - college level |
| 4011 | language professor - university |
| 0413 | language programs assistant director |
| 4021 | language school instructor |
| 0421 | language school manager |
| 4032 | language teacher - elementary school |
| 0112 | language training director |
| 4166 | languages co-ordinator - education |
| 9441 | lap machine tender - textile manufacturing |
| 6344 | lapidary |
| 9441 | lapper - textile manufacturing |
| 9441 | lapper tender - textile manufacturing |
| 9417 | lapping machine operator |
| 9417 | lapping machine set-up operator |
| 9417 | lapping machine tender |
| 9441 | lap-winder tender - textile manufacturing |
| 9617 | lard bleacher - food and beverage processing |
| 9461 | lard renderer - food and beverage processing |
| 9524 | large electrical appliance assembly lead hand |
| 9525 | large power transformer coil winder |
| 9536 | large surface spray painter |
| 9525 | large transformer coil winder |
| 9411 | larry car operator |
| 3111 | laryngologist |
| 9523 | laser assembler - electronic equipment manufacturing |
| 9472 | laser beam colour scanner operator |
| 7237 | laser beam machine-welder operator |
| 7237 | laser beam welder |
| 7237 | laser beam welding machine operator |
| 9416 | laser cutter - metal fabrication |
| 2111 | laser physicist |
| 9471 | laser printer operator |
| 2241 | laser technician |
| 7237 | laser welding operator |
| 9523 | laser-trimmer operator - electronic equipment manufacturing |
| 9619 | last ironer - shoe manufacturing |
| 9437 | last remodeler - woodworking |
| 9437 | last repairman/woman - woodworking |
| 9437 | last trimmer - woodworking |
| 9437 | last turner - woodworking |
| 9537 | laster - footwear manufacturing (except rubber) |
| 9423 | laster - rubber footwear manufacturing |
| 9437 | last-lathe tender - woodworking |
| 5245 | last-pattern grader |
| 2211 | latent fingerprint examiner |
| 9217 | latex carpet-backing department foreman/woman |
| 9421 | latex coagulation operator |
| 9421 | latex compounder |
| 9423 | latex ribbon machine operator - rubber products manufacturing |
| 9423 | latex thread machine operator - rubber products manufacturing |

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| 9615 | latex thread spooler - rubber products manufacturing |
| 9441 | latex-coating machine operator - textile manufacturing |
| 9417 | lathe hand - metal machining |
| 9417 | lathe machining operator |
| 9414 | lathe operator - concrete products |
| 9417 | lathe operator - metal machining |
| 9437 | lathe operator - woodworking |
| 9437 | lathe sander - woodworking |
| 9434 | lathe spotter - wood processing |
| 9437 | lathe turner - woodworking |
| 7284 | lather |
| 7284 | lather (interior systems mechanic) |
| 7284 | lather applicator |
| 7284 | lather apprentice |
| 7205 | latherer supervisor |
| 7284 | lather-mechanic, interior systems |
| 7205 | lathers foreman/woman |
| 7205 | lathers supervisor |
| 4031 | Latin teacher - secondary school |
| 7533 | launch captain |
| 7533 | launch master |
| 7533 | launch operator |
| 7533 | launch owner-operator |
| 2273 | launchman/woman |
| 6741 | launderer |
| 6316 | launderers supervisor |
| 6316 | launderers, dry cleaners and press operators foreman/woman |
| 6742 | laundromat attendant |
| 6316 | laundry and dry cleaning foreman/woman |
| 0015 | laundry and dry cleaning general manager |
| 0651 | laundry and dry cleaning manager |
| 6316 | laundry and dry cleaning workers and press operators foreman/woman |
| 6741 | laundry attendant |
| 6741 | laundry finisher |
| 6741 | laundry helper |
| 6741 | laundry labourer |
| 6741 | laundry machine operator |
| 0651 | laundry manager |
| 6316 | laundry production supervisor |
| 7514 | laundry route driver |
| 0651 | laundry service manager |
| 6411 | laundry services sales representative |
| 6316 | laundry supervisor |
| 9414 | laundry tub moulder - concrete products |
| 6741 | laundry worker |
| 4112 | law and corporate affairs adviser |
| 1213 | law archivists supervisor |
| 4211 | law clerk |
| 4211 | law clerk to judge |
| 4021 | law enforcement teacher |
| 5111 | law librarian |
| 4112 | law partner |
| 4011 | law professor - university |
| 5123 | law reporter |
| 4021 | law teacher - police college |
| 7335 | lawn and garden equipment technician |
| 6421 | lawn and garden supplies salesperson - retail |
| 8255 | lawn care contractor |
| 8612 | lawn care labourer |
| 8255 | lawn care service contractor |
| 2225 | lawn care specialist |
| 2225 | lawn care superintendent |
| 8255 | lawn care supervisor |
| 8612 | lawn care worker |
| 8255 | lawn maintenance contractor |
| 8612 | lawn mower |
| 9524 | lawn mower assembler, electric |
| 8612 | lawn-mowing worker |
| 4112 | lawyer |
| 4211 | lay notary public |
| 5245 | layer-out and patternmaker |
| 9619 | layer-up - garment manufacturing |
| 9217 | layout and marking foreman/woman - fabric, fur and leather products manufacturing |
| 5245 | lay-out and patternmaker |
| 5241 | layout artist |
| 5241 | layout designer |
| 7272 | layout marker - cabinetmaking |
| 9416 | lay-out marker - metal products manufacturing |
| 9437 | lay-out marker - woodworking |
| 9417 | layout marker, machine shop |
| 9537 | layout table hemmer |
| 9434 | layup machine operator - wood processing |
| 9619 | lay-up worker - garment manufacturing |
| 7511 | LCV (long combination vehicule) driver |
| 9411 | leaching operator - primary metal processing |
| 9527 | lead acid battery parts inspector |
| 9527 | lead acid battery production tester - electrical equipment manufacturing |
| 9527 | lead acid electrical battery production tester |
| 9527 | lead acid storage battery plate former - electrical equipment manufacturing |
| 9527 | lead acid storage battery plate maker |
| 9527 | lead acid storage battery tester |
| 9527 | lead acid storage battery tester - electrical equipment manufacturing |
| 9411 | lead and copper refiner |
| 7237 | lead burner |
| 9411 | lead caster - primary metal processing |
| 9412 | lead casting machine operator |
| 9536 | lead coater |
| 9212 | lead collections operator - water treatment |
| 9411 | lead dust treater |
| 9411 | lead extruder operator - primary metal processing |
| 9416 | lead fabricator |
| 2241 | lead flight simulator technician |

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| 9527 | lead former - electrical equipment manufacturing |
| 9532 | lead hand assembler - furniture manufacturing |
| 9416 | lead hand, forging machine operators |
| 9536 | lead hand, industrial painters |
| 9526 | lead hand, mechanical assemblers |
| 7244 | lead lineman/woman - electric power systems |
| 7244 | lead lineman/woman - electricity production and transmission |
| 9232 | lead operator - chemical processing |
| 9422 | lead operator, blow-moulding machine - plastic manufacturing |
| 9422 | lead operator, injection-moulding machine - plastic manufacturing |
| 9421 | lead oxide maker - chemical processing |
| 9421 | lead oxide mill tender - chemical processing |
| 9611 | lead reclaimer - primary metal processing |
| 9411 | lead refiner |
| 9211 | lead refining foreman/woman |
| 9412 | lead shot caster - foundry |
| 7244 | lead splicer - electric power systems |
| 7237 | lead welder |
| 9411 | lead wheel operator |
| 9411 | lead-casting machine operator - primary metal processing |
| 7292 | leaded glass glazier |
| 0011 | leader of the opposition |
| 4313 | leading seaman |
| 9411 | lead-melting furnace tender - metal processing |
| 9411 | lead-melting kettle tender - metal processing |
| 9231 | lead-refining furnace operator |
| 9411 | lead-smelting furnace tender - metal processing |
| 9411 | lead-smelting kettle tender - metal processing |
| 9522 | leaf spring assembler - motor vehicle manufacturing |
| 9416 | leaf spring inspector |
| 9416 | leaf spring maker - metal fabrication |
| 4033 | learning and study skills specialist |
| 0413 | learning programs director - adult education |
| 0413 | learning programs director - early-childhood education |
| 0413 | learning programs director - elementary education |
| 0413 | learning programs director - secondary education |
| 1221 | lease administration supervisor |
| 4211 | lease and title clerk |
| 9442 | lease worker - textiles |
| 8615 | leasehand |
| 8615 | leasehand - oil and gas drilling |
| 9442 | leaser - textiles |
| 1224 | leasing and development officer - public works |
| 9442 | leasing machine tender - textiles |
| 0121 | leasing manager - real estate |
| 6411 | leasing services sales representative |
| 9537 | leather bag maker |
| 9619 | leather belt maker |
| 9441 | leather buffer - hide and pelt processing |
| 9537 | leather case maker |
| 2112 | leather chemist |
| 6741 | leather cleaner - laundry and dry cleaning |
| 9619 | leather coater |
| 9445 | leather cutter |
| 9445 | leather cutter - leather footwear manufacturing |
| 9441 | leather dyer - hide and pelt processing |
| 6741 | leather finisher - dry cleaning |
| 9217 | leather finishing foreman/woman - hide and pelt processing |
| 9445 | leather garment cutter - manufacturing |
| 9446 | leather garment sewer |
| 9446 | leather garment sewing machine operator |
| 9447 | leather glove examiner |
| 9446 | leather glove repairer |
| 9619 | leather glove worker |
| 0621 | leather goods and clothing store manager |
| 9447 | leather goods inspector |
| 6421 | leather goods salesperson - retail |
| 9536 | leather goods spray painter |
| 9536 | leather goods sprayer |
| 9447 | leather grader |
| 9445 | leather harness maker |
| 9447 | leather inspector |
| 9445 | leather marker |
| 9441 | leather measurer - hide and pelt processing |
| 6741 | leather or suede sprayer - laundry and dry cleaning |
| 9441 | leather polisher - hide and pelt processing |
| 9445 | leather pressman/woman |
| 9619 | leather processing labourer |
| 9537 | leather products assembler |
| 9217 | leather products manufacturing foreman/woman |
| 5245 | leather products patternmaker |
| 9446 | leather products sewing machine operator |
| 9445 | leather rifle case maker |
| 9537 | leather riveter - footwear manufacturing |
| 9441 | leather sander - hide and pelt processing |
| 9446 | leather sewer |
| 9441 | leather shaver - hide and pelt processing |
| 9447 | leather sorter |
| 9441 | leather stainer - hide and pelt processing |
| 9447 | leather stock inspector |
| 9441 | leather stretcher - hide and pelt processing |
| 9441 | leather tanner |
| 9447 | leather tanneries inspector |
| 9445 | leather trunk maker |

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| **5244** | leather worker |
| **9446** | leather-glove-stitching machine operator |
| **9446** | leather-sewing machine operator |
| **9445** | leather-stripping machine tender - leather products manufacturing |
| **4021** | lecturer - college |
| **4011** | lecturer - university |
| **1431** | ledger clerk |
| **1434** | ledger control clerk |
| **1434** | ledger control clerk - financial sector |
| **1434** | ledger control officer - financial sector |
| **1242** | legal administrative assistant |
| **4112** | legal advisor |
| **4112** | legal advocate |
| **4112** | legal aid lawyer |
| **1242** | legal assistant |
| **1242** | legal assistant - criminal law |
| **4021** | legal assistant program teacher |
| **4112** | legal attaché |
| **4112** | legal counsel |
| **0114** | legal department chief |
| **0114** | legal department director |
| **0125** | legal firm manager |
| **4112** | legal officer |
| **4211** | legal researcher |
| **4021** | legal secretarial program teacher - community college |
| **1242** | legal secretary |
| **1227** | legal services officer - courts |
| **1213** | legal services record writers supervisor |
| **1242** | legal stenographer |
| **2254** | legal survey assistant |
| **2254** | legal survey technician |
| **2254** | legal survey technologist |
| **2154** | legal surveyor |
| **4211** | legal technician |
| **5125** | legal terminologist |
| **5125** | legal translator |
| **4112** | legislative adviser |
| **0423** | legislative assembly clerk |
| **0414** | Legislative Assembly services director |
| **1222** | legislative assistant |
| **0011** | legislative body speaker |
| **4168** | legislative committee officer |
| **4168** | legislative council officer |
| **4112** | legislative counsel |
| **0414** | legislative services director |
| **0011** | legislator |
| **4167** | leisure activities consultant |
| **4167** | leisure activities counsellor |
| **4167** | leisure activities program co-ordinator |
| **0513** | leisure administrator |
| **0513** | leisure administrator in chief |
| **4167** | leisure analyst |
| **6722** | leisure and sports attendant |
| **0513** | leisure and sports director |
| **6722** | leisure attendant |
| **0513** | leisure centre director |
| **0513** | leisure centre sports director |
| **0513** | leisure chief administrator |
| **4167** | leisure consultant |
| **4167** | leisure co-ordinator |
| **4167** | leisure counsellor |
| **0513** | leisure director |
| **0513** | leisure establishment director |
| **0513** | leisure establishment managing supervisor |
| **6722** | leisure facility attendant |
| **0513** | leisure head administrator |
| **0513** | leisure manager |
| **4167** | leisure policy analyst |
| **4167** | leisure program co-ordinator |
| **5254** | leisure program leader |
| **0513** | leisure programs director |
| **0513** | leisure programs manager |
| **0513** | leisure service director |
| **0513** | leisure service manager |
| **4167** | leisure services co-ordinator |
| **7334** | leisure vehicle technician (except recreational vehicles) |
| **6235** | lending services officer |
| **6235** | lending services trainee |
| **1114** | lending solutions manager |
| **9619** | lens blank marker |
| **9619** | lens block cleaner |
| **9619** | lens blocker |
| **9537** | lens edger feeder - non-prescription |
| **9537** | lens edger tender - non-prescription |
| **9227** | lens grinder and polisher foreman/woman |
| **3414** | lens grinder-polisher setter |
| **9619** | lens hardener |
| **9227** | lens manufacturing (non-prescription) supervisor |
| **3414** | lens marker - health support services |
| **3414** | lens marker - ophthalmic |
| **9537** | lens-grinding machine tender - non-prescription |
| **9537** | lensometer operator - non-prescription |
| **9537** | lens-polisher operator - non-prescription |
| **9537** | lens-polishing machine operator - non-prescription |
| **9537** | lens-silverer operator - non-prescription |
| **9537** | lens-silvering machine operator - non-prescription |
| **1512** | letter carrier |
| **1214** | letter carriers supervisor |
| **1511** | letter sorting clerk |
| **5223** | lettering artist |
| **7303** | letterpress foreman/woman - printing |
| **7381** | letterpress operator - printing |
| **7381** | letterpress proof press operator - printing |
| **7381** | letterpress proof puller - printing |
| **7303** | letterpress room foreman/woman |
| **8221** | level boss - underground mining |
| **9619** | level vial setter |

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| **9437** | leveller operator - woodworking |
| **9614** | leverman/woman - wood processing |
| **5121** | lexicographer |
| **8231** | LHD (load-haul-dump) operator - underground mining |
| **1312** | liability adjuster - insurance |
| **1434** | liability clerk - financial sector |
| **0121** | liability trading manager |
| **1313** | liability underwriter |
| **5111** | liaison librarian |
| **3012** | liaison nurse |
| **1221** | liaison officer |
| **5111** | librarian |
| **4031** | librarian-teacher - high school |
| **1451** | library aide |
| **1451** | library assistant |
| **0511** | library chief |
| **1451** | library clerk |
| **1213** | library clerks supervisor |
| **5111** | library consultant |
| **5111** | library co-ordinator |
| **5112** | library curator |
| **0511** | library director |
| **1451** | library filer |
| **1213** | library loans supervisor |
| **1451** | library page |
| **4011** | library science professor - university |
| **5111** | library supervisor |
| **5211** | library technician |
| **1452** | licence clerk |
| **1213** | licence clerks supervisor |
| **4423** | licence inspector |
| **3231** | licensed contact lens practitioner |
| **6322** | licensed cook |
| **1315** | licensed customs broker |
| **3411** | licensed dental assistant |
| **3222** | licensed dental therapist |
| **3231** | licensed dispensing optician |
| **3237** | licensed hearing instrument specialist |
| **5242** | licensed interior designer |
| **3124** | licensed midwife |
| **3233** | licensed nursing assistant |
| **3231** | licensed optician |
| **3233** | licensed practical nurse (L.P.N.) |
| **6541** | lie detector examiner |
| **5133** | lied singer |
| **0433** | lieutenant |
| **0433** | lieutenant - air force |
| **0433** | lieutenant - army |
| **0433** | lieutenant - navy |
| **0433** | lieutenant colonel |
| **0433** | lieutenant commander |
| **0433** | lieutenant general |
| **0011** | lieutenant-governor |
| **2161** | life actuary |
| **5254** | life enrichment co-ordinator - recreation and fitness |
| **6231** | life insurance agent |
| **6231** | life insurance representative |
| **6231** | life insurance salesman/woman |
| **4011** | life sciences professor - university |
| **0212** | life sciences program manager |
| **2221** | life sciences research technician |
| **4212** | life skills coach |
| **4212** | life skills instructor |
| **1313** | life underwriter |
| **5254** | lifeguard |
| **7452** | lift driver |
| **7452** | lift jack operator |
| **6316** | lift operation supervisor |
| **7452** | lift scoop operator |
| **7334** | lift truck mechanic |
| **7452** | lift truck operator |
| **2262** | lifting gear inspector |
| **9226** | light agricultural and farm equipment assembly foreman/woman |
| **9526** | light agricultural equipment assembler |
| **9526** | light agricultural machinery assembler |
| **9226** | light agricultural machinery assembly foreman/woman |
| **5226** | light board operator |
| **9527** | light bulb inspector |
| **9527** | light bulb inspector and tester |
| **9527** | light bulb maker |
| **9527** | light bulb making inspector |
| **9527** | light bulb making machine operator |
| **9527** | light bulb tester |
| **9526** | light construction equipment assembler |
| **9226** | light construction machinery assembly foreman/woman |
| **6731** | light duty cleaner |
| **9526** | light farm equipment assembler |
| **9524** | light fixtures assembler |
| **9526** | light industrial truck assembler |
| **9226** | light industrial, farm and construction machinery assembly foreman/woman |
| **9526** | light material-handling equipment assembler |
| **9226** | light material-handling equipment assembly foreman/woman |
| **7452** | light materials handler |
| **7305** | light rail transit (LRT) operators foreman/woman |
| **7305** | light rail transit (LRT) operators supervisor |
| **7512** | light rail transit operator |
| **9522** | light truck assembler - automobile assembly |
| **6221** | light, heat and power sales engineer |
| **9527** | light-bulb-sealing machine operator - electrical equipment manufacturing |
| **9527** | light-bulb-sealing machine tender - electrical equipment manufacturing |
| **7533** | lighthouse keeper |
| **6421** | lighting appliance salesperson - retail |
| **5227** | lighting assistant |
| **5243** | lighting designer |

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|---|---|
| 5243 | lighting designer - exhibits |
| 5226 | lighting effects chief technician |
| 9524 | lighting fixture assembler |
| 9524 | lighting fixture assembly section leader |
| 6411 | lighting fixture sales representative - wholesale (non-technical) |
| 9524 | lighting fixtures wirer |
| 6421 | lighting salesperson - retail |
| 5226 | lighting technician |
| 2241 | lighting technologist |
| 6221 | lighting, heating and power sales representative |
| 6221 | lighting, heating and power sales specialist |
| 7441 | lightning cable installer |
| 7611 | lightning rod erector helper |
| 7441 | lightning rod installer |
| 9421 | light-oil extractor operator |
| 9611 | lime kiln helper - mineral products processing |
| 9614 | lime kiln helper - pulp and paper |
| 9411 | lime kiln operator |
| 9411 | lime kiln operator - mineral and metal processing |
| 9432 | lime kiln operator - pulp and paper |
| 9611 | lime kiln operator helper - mineral products processing |
| 9414 | lime mixer operator |
| 9414 | lime mixer tender |
| 9211 | lime preparation foreman/woman |
| 9611 | lime slaker |
| 9432 | lime sludge mixer |
| 9441 | limer - hide and pelt processing |
| 8614 | limestone spreader - underground mining |
| 2121 | limnologist |
| 7513 | limousine driver |
| 7202 | line and cable contractor |
| 7202 | line and cable installation and maintenance supervisor |
| 7202 | line and cable installation foreman/woman |
| 7202 | line and cable installers foreman/woman |
| 7202 | line and cable repairer foreman/woman - power lines |
| 7202 | line and cable workers supervisor |
| 9437 | line and frame pole worker - wood products |
| 9524 | line assembly utilityman/woman - electrical equipment manufacturing |
| 7244 | line checker - electric power systems |
| 2133 | line construction engineer |
| 6322 | line cook |
| 8411 | line crew blaster - underground mining |
| 5134 | line dance teacher |
| 5134 | line dancer |
| 5122 | line editor |
| 8262 | line fisherman/woman |
| 7202 | line foreman/woman - power lines |
| 7202 | line foreman/woman - telecommunications |
| 7245 | line inspector - telecommunications |
| 7244 | line installation trainee - electric power systems |
| 7245 | line installer - telecommunications |
| 7245 | line installer-repairer - telecommunications |
| 7442 | line locator - utilities |
| 7244 | line maintainer - electric power systems |
| 7244 | line patroller - electric power systems |
| 7244 | line repairer - electric power systems |
| 7245 | line repairer - telecommunications |
| 7244 | line servicer - electric power systems |
| 9441 | line spooler |
| 7511 | line-haul driver |
| 8241 | linehorse operator |
| 7244 | lineman/woman - electric power systems |
| 7244 | lineman/woman - electric streetcar |
| 7612 | lineman/woman helper |
| 7612 | lineman/woman helper - power and communication lines |
| 7244 | lineman/woman trainee - electric power systems |
| 7244 | lineman/woman trainee - electricity production and transmission |
| 7245 | lineman-technician/linewoman-technician - telecommunications |
| 1522 | linen room attendant |
| 1522 | linen supply clerk |
| 1522 | linenkeeper |
| 7621 | line-painting machine operator - highways and roads |
| 9435 | liner machine operator - paper converting |
| 7612 | liner replacer - ore-processing equipment |
| 9423 | liner reroller - rubber products manufacturing |
| 2241 | lines distribution design technologist |
| 7533 | lineshandler - canal lock system |
| 7533 | linesman/woman - canal lock system |
| 7384 | linesman/woman - shipbuilding |
| 9522 | line-up adjuster - motor vehicle manufacturing |
| 5122 | line-up editor |
| 9472 | lineup examiner - printing |
| 9522 | line-up man/woman - motor vehicle manufacturing |
| 7244 | lineworker - electrical power systems |
| 7612 | lineworker helper |
| 7245 | lineworker-technician - telecommunications |
| 4169 | linguist |
| 4169 | linguistic anthropologist |
| 4011 | linguistics associate professor |
| 4011 | linguistics department chairman/woman - university |
| 4011 | linguistics department chairperson - university |
| 4011 | linguistics department head - university |
| 4011 | linguistics professor - university |
| 9619 | lining inserter, skates |
| 9446 | lining sewer |
| 9446 | lining stitcher |

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|---|---|
| **9619** | link cutter - garment manufacturing |
| **9442** | link machine knitter |
| **9418** | link wire machine set-up operator |
| **9418** | link wire machine tender |
| **9617** | linking machine tender - food and beverage processing |
| **7295** | linoleum floor covering installer |
| **7295** | linoleum floor covering layer |
| **7295** | linoleum floor installer |
| **7295** | linoleum floor layer |
| **9422** | linoleum floor tile backer |
| **9422** | linoleum floor tile calender operator |
| **9535** | linoleum inspector |
| **9535** | linoleum line inspector |
| **9421** | linoleum oil oxidizer |
| **9535** | linoleum quality control inspector |
| **1423** | Linotype composing machine operator |
| **7311** | linotype repairer |
| **9461** | linseed oil extractor |
| **4215** | lip-reading instructor |
| **4215** | lip-reading teacher |
| **9232** | liquefaction plant operator |
| **9421** | liquefied gas drum filler |
| **7511** | liquid fertilizer truck driver |
| **2134** | liquid fuels engineer |
| **9421** | liquid mixer, photographic chemicals |
| **2261** | liquid penetrant technician - non-destructive testing |
| **2261** | liquid penetrant testing technician |
| **9461** | liquid sugar operator |
| **0912** | liquid waste facility manager |
| **9243** | liquid waste process operator |
| **9243** | liquid waste processing plant operator |
| **9243** | liquid waste treatment plant operator |
| **7452** | liquids loader-unloader |
| **9461** | liquor blender - food and beverage processing |
| **4423** | liquor board licence inspector |
| **0012** | liquor commissioner |
| **1524** | liquor controller - inventory |
| **9461** | liquor gallery tender - food and beverage processing |
| **9617** | liquor gallery tender helper - food and beverage processing |
| **4423** | liquor licence inspector |
| **9432** | liquor maker - pulp and paper |
| **6411** | liquor sales representative |
| **6411** | liquor sales representative - wholesale |
| **0621** | liquor store manager |
| **6421** | liquor store sales clerk |
| **6211** | liquor store supervisor |
| **9465** | liquor tester - food and beverage processing |
| **2255** | LIS (land information system) technician |
| **2255** | LIS (land information system) technologist |
| **4166** | literacy coach |
| **1123** | literary agent |
| **5123** | literary critic |
| **5122** | literary editor |
| **5125** | literary translator |
| **5121** | literary writer |
| **4011** | literature professor - university |
| **5241** | litho artist |
| **5136** | lithographic artist |
| **9619** | lithographic offset press feeder |
| **7381** | lithographic offset proofer |
| **7381** | lithographic offset proofing hand |
| **9472** | lithographic plate preparer |
| **9472** | lithographic platemaker |
| **9619** | lithographic press feeder, sheet metal |
| **7381** | lithographic press operator - printing |
| **7381** | lithographic pressman/woman - printing |
| **7381** | lithographic printer |
| **1242** | litigation administrative assistant |
| **4211** | litigation law clerk |
| **1242** | litigation legal assistant |
| **4211** | litigation paralegal |
| **1242** | litigation secretary |
| **4112** | litigator |
| **4412** | live-in caregiver - persons with disabilities |
| **4412** | live-in caregiver - seniors |
| **4412** | live-in housekeeper |
| **4411** | live-in nanny |
| **6733** | live-in superintendant |
| **8252** | livery stable foreman/woman |
| **8252** | livestock attendant |
| **8252** | livestock breeding service contractor |
| **6411** | livestock broker |
| **6222** | livestock buyer |
| **6411** | livestock commission agent |
| **0621** | livestock dealer |
| **0212** | livestock development manager |
| **8431** | livestock driver |
| **8252** | livestock exchange contractor |
| **8252** | livestock farm workers foreman/woman |
| **0821** | livestock farmer |
| **8252** | livestock foreman/woman |
| **2222** | livestock inspector |
| **9462** | livestock killer |
| **8431** | livestock labourer |
| **0212** | livestock production programs manager |
| **0212** | livestock program development manager |
| **8252** | livestock raising foreman/woman |
| **6411** | livestock sales representative - wholesale |
| **2123** | livestock specialist |
| **8431** | livestock weigher |
| **8431** | livestock yard attendant |
| **8431** | livestock yardman/woman |
| **6523** | load agent - airline |
| **6523** | load control agent - airline |
| **1215** | load control supervisor |
| **9241** | load dispatcher - electrical power systems |
| **9613** | loader - chemical processing |
| **7521** | loader operator - construction |
| **8241** | loader operator - logging |

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|---|---|
| **7452** | loader-unloader - material handling |
| **8231** | load-haul-dump (LHD) operator - underground mining |
| **7302** | loading and moving foreman/woman - construction |
| **7533** | loading bridge operator |
| **7533** | loading bridge operator - ferry |
| **7302** | loading dock foreman/woman |
| **8211** | loading foreman/woman - logging |
| **8411** | loading head operator - underground mining |
| **9421** | loading inspector - chemical processing |
| **8231** | loading machine operator - underground mining |
| **8411** | loading pocket operator - underground mining |
| **7535** | loading shovel oiler |
| **0122** | loan and credit manager - banking or trust company |
| **1434** | loan clerk - financial sector |
| **1435** | loan collector |
| **6235** | loan inspector |
| **6235** | loan officer |
| **6235** | loans adviser |
| **6235** | loans agent |
| **6235** | loans analyst |
| **1241** | loans and grants administrative assistant |
| **6235** | loans counsellor |
| **0122** | loans manager |
| **0122** | loans manager trainee |
| **6235** | loans supervisor |
| **0014** | lobby chief executive officer - health, education, social and community services and membership organizations |
| **6721** | lobby porter |
| **2221** | lobster culture technician |
| **0823** | lobster farmer |
| **8262** | lobster fisherman/woman |
| **8613** | lobster pound attendant |
| **9463** | lobster processor - fish processing |
| **2281** | local area network (LAN) administrator |
| **2281** | local area network (LAN) manager |
| **2281** | local area network (LAN) operator |
| **2281** | local area network (LAN) technician |
| **0012** | local government manager |
| **0411** | local health services director - government services |
| **5122** | local news editor |
| **6531** | local tour guide |
| **5125** | localiser |
| **5226** | location manager - motion pictures and broadcasting |
| **1435** | locator - collection |
| **9537** | lock assembler |
| **7384** | lock expert |
| **7384** | lock fitter |
| **9537** | lock maker |
| **7533** | lock operator |
| **7384** | lock repairer |
| **7384** | lock repairman/woman |
| **7384** | lock setter |
| **9461** | locker plant attendant - food and beverage processing |
| **6742** | locker room attendant |
| **7533** | lockmaster |
| **7384** | locksmith |
| **7384** | locksmithing expert |
| **7531** | locomotive attendant - railway yard |
| **7316** | locomotive builder |
| **7371** | locomotive crane operator |
| **7371** | locomotive craneman/woman |
| **2275** | locomotive dispatcher |
| **7531** | locomotive distributor - railway yard |
| **9525** | locomotive electrical inspector |
| **7531** | locomotive engine servicer |
| **7361** | locomotive engineer - railway |
| **7301** | locomotive erecting shop foreman/woman |
| **7316** | locomotive fitter |
| **7361** | locomotive hostler |
| **7301** | locomotive inspectors foreman/woman |
| **7531** | locomotive maintenance attendant |
| **7312** | locomotive mechanic |
| **9536** | locomotive painter |
| **7531** | locomotive servicer |
| **3112** | locum doctor |
| **6731** | lodge cleaner |
| **0632** | lodging house manager |
| **6313** | lodging house managing supervisor |
| **6731** | lodging-establishment cleaner (except private households) |
| **9531** | loft rigger - boat assembly |
| **7384** | loftsman/woman - aircraft manufacturing |
| **7384** | loftsman/woman - shipbuilding |
| **2212** | log analyst |
| **7532** | log boom tugboat deckhand |
| **6222** | log buyer |
| **9434** | log cooker - wood processing |
| **9431** | log cut-off operator |
| **9431** | log cut-off operator - sawmill |
| **9431** | log cut-off sawyer - sawmill |
| **8421** | log cutter |
| **9614** | log deck tender |
| **8616** | log driver |
| **9614** | log feeder |
| **9431** | log gang saw operator - sawmill |
| **9431** | log gang sawyer - sawmill |
| **2223** | log grader |
| **9614** | log handler |
| **9431** | log haul cut-off saw operator - sawmill |
| **7511** | log hauler |
| **9431** | log hoist operator - sawmill |
| **7271** | log home builder |
| **7271** | log home carpenter |
| **7271** | log home carpenter-builder |
| **8241** | log loader operator |

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|---|---|
| 8241 | log loading machine operator |
| 9614 | log peeler, hand |
| 8241 | log process operator |
| 8241 | log processor operator |
| 8616 | log rider |
| 2223 | log scaler |
| 2212 | log technician |
| 9614 | log transfer tender |
| 7511 | log truck driver |
| 9434 | log vat tender - wood processing |
| 8211 | log yarding boss |
| 8421 | logger |
| 8211 | loggers supervisor - forestry |
| 8616 | logging and forestry labourer |
| 8232 | logging and perforating operator |
| 8232 | logging and perforating operator - oil field services |
| 6322 | logging camp cook |
| 6711 | logging camp cook's helper |
| 0016 | logging company corporate controller |
| 8211 | logging contractor |
| 8241 | logging crane operator |
| 8211 | logging crew supervisor - forestry |
| 6221 | logging equipment salesperson |
| 8211 | logging foreman/woman |
| 8616 | logging labourer |
| 7316 | logging machinery fitter |
| 8241 | logging machinery operator |
| 0811 | logging production manager |
| 7302 | logging road construction foreman/woman |
| 7302 | logging road construction supervisor |
| 8211 | logging supervisor |
| 8421 | logging tractor operator |
| 7511 | logging truck driver |
| 8241 | logging truck loader |
| 1215 | logistical supervisor - traffic |
| 1526 | logistics clerk - transportation |
| 0731 | logistics director - transportation |
| 1523 | logistics inbound/outbound co-ordinator - production |
| 0911 | logistics manager - manufacturing |
| 0731 | logistics manager - transportation |
| 0433 | logistics officer |
| 1215 | logistics supervisor |
| 1215 | logistics supervisor - transportation |
| 3141 | logopedist |
| 9461 | lollipop maker |
| 7511 | long combination vehicule (LCV) driver |
| 7512 | long distance bus driver |
| 1414 | long distance telephone operator |
| 7511 | long distance truck driver |
| 7511 | long haul driver |
| 7511 | long haul tractor-trailer driver |
| 7511 | long haul truck driver |
| 3413 | long term care aide |
| 8231 | long-hole blaster - underground mining |
| 8231 | long-hole driller - underground mining |

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|---|---|
| 8262 | longline fisherman/woman |
| 8262 | longliner fisherman/woman |
| 2153 | long-range planner - land use |
| 7451 | longshore worker |
| 7451 | longshore worker and tower-loader operator |
| 7302 | longshore worker superintendent |
| 7302 | longshore workers foreman/woman |
| 7451 | longshoreman/woman |
| 7302 | longshoremen/women, stevedores and freight handlers foreman/woman |
| 4165 | long-term care program consultant |
| 8231 | longwall coal shearer operator |
| 5232 | look-alike |
| 8422 | lookout - forestry |
| 7311 | loom changer |
| 9616 | loom cleaner |
| 9616 | loom doffer - textile processing |
| 9442 | loom drawer-in |
| 9442 | loom drawer-in helper |
| 7311 | loom fixer |
| 7311 | loom fixer - textile manufacturing |
| 9447 | loom inspector |
| 7311 | loom mechanic - textile manufacturing |
| 7311 | loom mechanic-repairer - textile manufacturing |
| 9442 | loom operator |
| 7311 | loom pattern changer |
| 7311 | loom preparer |
| 7311 | loom reed repairer - textile manufacturing |
| 7311 | loom repairer - textile manufacturing |
| 7311 | loom setter |
| 7311 | loom setter - textile manufacturing |
| 9418 | loom setter, wire weaving |
| 7311 | loom starter |
| 7311 | loom technician |
| 7311 | loom technician - textile manufacturing |
| 9423 | loom tender - rubber products manufacturing |
| 9442 | loom threader |
| 9442 | loom threader helper |
| 9442 | loom weaver |
| 9441 | loom-winder tender |
| 9442 | looper - textiles |
| 7311 | looper fixer - textile manufacturing |
| 7311 | looper setter - textile manufacturing |
| 9437 | looping machine tender - wood products manufacturing |
| 1312 | loss examiner - insurance |
| 2262 | loss prevention inspector - insurance |
| 6541 | loss prevention officer - retail |
| 6541 | loss prevention officers supervisor |
| 2233 | loss prevention technologist - manufacturing |
| 6552 | lost claims clerk |
| 6552 | lost or damaged goods claim clerk |
| 1511 | lost parcel post search clerk |
| 9412 | lost pattern caster - foundry |
| 1511 | lost postal package search clerk |
| 9412 | lost wax caster - foundry |

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|---|---|
| 6552 | lost-and-found clerk |
| 6552 | lost-and-found desk clerk |
| 6732 | lot porter - auto cleaning |
| 6421 | lottery kiosk clerk |
| 6421 | lottery sales representative - retail |
| 4423 | lottery supervisor - government services |
| 6512 | lounge supervisor-bartender |
| 6513 | lounge waiter/waitress |
| 7441 | louvred fence erector |
| 2133 | low voltage equipment engineer |
| 7511 | low-bed semi-trailer driver |
| 0712 | low-rise residential home builder |
| 2111 | low-temperature physicist |
| 7305 | LRT (light rail transit) operators foreman/woman |
| 7305 | LRT (light rail transit) operators supervisor |
| 5125 | LSQ (Quebec Sign Language) interpreter |
| 9423 | lube and splice operator - rubber products |
| 6221 | lubricating equipment salesperson |
| 2132 | lubrication engineer |
| 7535 | lubrication technician - automotive service and repair |
| 1423 | Ludlow machine operator |
| 1423 | Ludlow typesetting machine operator |
| 5252 | luge coach |
| 5252 | luge instructor |
| 9217 | luggage assembly foreman/woman - fabric, fur and leather products manufacturing |
| 6721 | luggage attendant |
| 6524 | luggage checker (except airline) |
| 5243 | luggage designer |
| 9537 | luggage finisher |
| 9619 | luggage handle maker |
| 9537 | luggage shell bonder operator |
| 5243 | luggage stylist |
| 6222 | lumber buyer |
| 9434 | lumber drop sorter - wood processing |
| 9614 | lumber feeder - wood processing |
| 9436 | lumber grader |
| 9215 | lumber grading foreman/woman - wood processing |
| 7452 | lumber handler - building supplies |
| 9614 | lumber handler - wood processing |
| 9436 | lumber inspector |
| 9434 | lumber kiln operator |
| 9436 | lumber marker |
| 0911 | lumber mill manager |
| 7452 | lumber piler - building supplies |
| 6411 | lumber sales representative - wholesale |
| 9614 | lumber salvager - wood processing |
| 9431 | lumber sizer operator - sawmill |
| 9434 | lumber sorter, machine |
| 7452 | lumber stocker - material handling |
| 9614 | lumber straightener - wood processing |
| 9614 | lumber tailer - wood processing |
| 1523 | lumber tallyman/woman |
| 9614 | lumber tier - wood processing |
| 7452 | lumber unloader - material handling |
| 8421 | lumberjack |
| 9461 | lump maker - tobacco processing |
| 9461 | lump roller - tobacco processing |
| 7451 | lumper - marine cargo handling |
| 6711 | lunchroom counter attendant |
| 6711 | lunchroom counterman/woman |
| 4413 | lunchroom supervisor - school |
| 4413 | lunchtime supervisor - primary and secondary school |
| 3111 | lung specialist |
| 9441 | lusterer - textile manufacturing |
| 9461 | lye peel tender - food and beverage processing |
| 5132 | lyricist |

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|---|---|
| 9461 | macaroni press operator |
| 9471 | machine advertising signs printer |
| 9418 | machine assembler, springs |
| 9442 | machine ball fringe maker |
| 9527 | machine base cement filler - electrical equipment manufacturing |
| 9473 | machine binder - printing |
| 9473 | machine bookbinder |
| 9473 | machine bronzer - printing |
| 9414 | machine buffer, stones |
| 7316 | machine builder |
| 7316 | machine builder-fitter |
| 7301 | machine builders foreman/woman |
| 9435 | machine cardboard maker |
| 9437 | machine carver - woodworking |
| 9414 | machine cement pipe shaper - clay products |
| 9418 | machine chain maker |
| 9617 | machine cigar wrapper |
| 9473 | machine collator and gluer - printing |
| 9435 | machine colour card maker |
| 1423 | machine compositor - typesetting |
| 9414 | machine contour grinder - concrete, clay and stone products |
| 9412 | machine coremaker |
| 9412 | machine coremaker - foundry |
| 9473 | machine cutter - printing |
| 9418 | machine cutter, metal pipes |
| 9414 | machine decorator - clay products |
| 2232 | machine designer |
| 9537 | machine drapery pleater |
| 9536 | machine enameller |
| 5244 | machine engraver - arts and crafts |
| 9537 | machine engraver - manufacturing |
| 9435 | machine envelope flap gummer - paper converting |
| 9619 | machine feeder |
| 9615 | machine feeder, rubber cutting |
| 9445 | machine felt cutter |

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|---|---|
| 7316 | machine fitter |
| 7316 | machine fitter charge hand |
| 7301 | machine fitters foreman/woman |
| 7301 | machine fitters supervisor |
| 9441 | machine flesher - hide and pelt processing |
| 9473 | machine folder - printing |
| 6741 | machine fur cleaner |
| 9473 | machine gatherer and gluer - printing |
| 9414 | machine greenware turner - clay products |
| 9537 | machine heel maker |
| 9611 | machine helper - primary metal and mineral products processing |
| 9423 | machine hose cutter and brander - rubber products manufacturing |
| 9423 | machine hose maker - rubber products manufacturing |
| 9437 | machine jointer, panels - woodworking |
| 9616 | machine knitter helper |
| 9442 | machine knitting mender |
| 9442 | machine loom drawer-in |
| 9442 | machine loom threader |
| 7301 | machine maintenance foreman/woman - manufacturing |
| 9414 | machine marble polisher - stone products |
| 9471 | machine marker |
| 7612 | machine mechanic-fitter helper |
| 9412 | machine moulder - foundry |
| 9615 | machine offbearer - rubber products manufacturing |
| 9527 | machine operator - electrical appliance and equipment manufacturing |
| 9527 | machine operator - electrical appliance manufacturing |
| 9527 | machine operator - electrical equipment manufacturing |
| 9523 | machine operator - electronic equipment manufacturing |
| 9463 | machine operator - fish processing |
| 9461 | machine operator - food and beverage processing |
| 9446 | machine operator - garment manufacturing |
| 9413 | machine operator - glass forming and finishing |
| 9441 | machine operator - hide and pelt processing |
| 6741 | machine operator - laundry and dry cleaning |
| 9417 | machine operator - metal machining |
| 9411 | machine operator - mineral and metal processing |
| 9522 | machine operator - motor vehicle manufacturing |
| 9422 | machine operator - plastic manufacturing |
| 9422 | machine operator - plastics processing |
| 9536 | machine operator - plating and metal spraying |
| 7531 | machine operator - railway |
| 9441 | machine operator - textile fibre and yarn preparation |
| 9461 | machine operator - tobacco processing |
| 7237 | machine operator - welding, brazing and soldering |
| 9615 | machine operator helper, plastic products manufacturing |
| 9615 | machine operator helper, rubber products manufacturing |
| 9414 | machine operator, concrete blocks |
| 9414 | machine operator, concrete spinning |
| 9619 | machine packager |
| 9435 | machine pad gluer - paper converting |
| 9537 | machine pleater, draperies |
| 9461 | machine plug moulder - tobacco processing |
| 9434 | machine plywood patcher |
| 9416 | machine power saw operator |
| 6741 | machine presser - laundry and dry cleaning |
| 9471 | machine printer, signs |
| 1111 | machine processing accountant |
| 9527 | machine riveter - electrical equipment manufacturing |
| 9435 | machine roll cutter - paper converting |
| 9435 | machine roll slitter - paper converting |
| 9417 | machine router - metal machining |
| 9437 | machine sander - woodworking |
| 9527 | machine set-up operator - electric equipment manufacturing |
| 9527 | machine set-up operator - electrical appliance manufacturing |
| 9527 | machine set-up operator - electrical equipment manufacturing |
| 9422 | machine set-up operator - plastic manufacturing |
| 9612 | machine shop bench hand - metal products manufacturing |
| 7231 | machine shop charge hand |
| 7242 | machine shop electrical repairer |
| 7201 | machine shop foreman/woman |
| 9612 | machine shop helper - metal products manufacturing |
| 7231 | machine shop inspector |
| 7201 | machine shop inspectors foreman/woman |
| 1522 | machine shop keeper |
| 9417 | machine shop layer-out |
| 7201 | machine shop supervisor |
| 9471 | machine shotgun-shell printer |
| 9473 | machine side stitcher - printing |
| 9471 | machine sign writer |
| 9537 | machine skiver - leather products manufacturing |
| 9527 | machine sleeve assembler - electrical equipment manufacturing |
| 9431 | machine splitter - sawmill |
| 9414 | machine splitter, stones |
| 9473 | machine stitcher - binding |
| 9414 | machine stone buffer |
| 9414 | machine stone splitter |
| 9461 | machine stripper - tobacco processing |

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| **9442** | machine tassel maker |
| **9617** | machine tobacco packer |
| **7316** | machine tool builder |
| **7316** | machine tool builder-integrator |
| **2232** | machine tool designer |
| **7201** | machine tool grinding foreman/woman |
| **7316** | machine tool integrator |
| **9417** | machine tool operator - metal machining |
| **7201** | machine tool operators foreman/woman |
| **9417** | machine tool setter |
| **9417** | machine tool set-up man/woman |
| **9417** | machine tool set-up operator |
| **9417** | machine tool set-up operator, bench |
| **9423** | machine trimmer - rubber products manufacturing |
| **9526** | machine try-out tester |
| **9527** | machine tube assembler - electrical equipment manufacturing |
| **9435** | machine tube maker - paper converting |
| **9527** | machine tuber - electrical equipment manufacturing |
| **9435** | machine tuber - paper converting |
| **7237** | machine type solderer |
| **1423** | machine typecaster |
| **9442** | machine warp tier-in - textiles |
| **6741** | machine washer - laundry and dry cleaning |
| **7237** | machine welder |
| **9411** | machine wire drawer |
| **9527** | machine wire-cutter and wire-stripper - electrical equipment manufacturing |
| **7231** | machined parts inspector |
| **9412** | machine-line moulder - foundry |
| **7301** | machinery assembly foreman/woman |
| **7316** | machinery manufacturing fitter |
| **7301** | machinery manufacturing foreman/woman |
| **6221** | machinery salesperson |
| **7445** | machinery salvager |
| **9417** | machine-tool setter - metal machining |
| **7231** | machining and tooling inspector |
| **7201** | machining and tooling inspectors foreman/woman |
| **9417** | machining equipment set-up operator |
| **7201** | machining foreman/woman |
| **9224** | machining foreman/woman - furniture and fixtures manufacturing |
| **7231** | machining inspector |
| **7201** | machining inspectors foreman/woman |
| **7201** | machining supervisor |
| **7201** | machining tool foreman/woman |
| **9417** | machining tool operator |
| **7201** | machining tool operators foreman/woman |
| **7231** | machinist |
| **7231** | machinist apprentice |
| **5226** | machinist-electrician |
| **7201** | machinists and machine tool set-up operators foreman/woman |
| **7201** | machinists foreman/woman |
| **7201** | machinists supervisor |
| **6342** | made-to-measure garment tailor |
| **5132** | maestro |
| **6623** | magazine distribution agent - retail |
| **5122** | magazine editor |
| **1522** | magazine keeper |
| **6411** | magazine sales representative |
| **6411** | magazine sales representative - wholesale |
| **6421** | magazine salesperson - retail |
| **6421** | magazine shop clerk |
| **6623** | magazine subscription solicitor |
| **5232** | magician |
| **4111** | magistrate court judge |
| **9416** | magnetic flame cutting machine operator - metal fabrication |
| **2212** | magnetic observer |
| **2261** | magnetic particle technician |
| **2261** | magnetic particle tester |
| **2261** | magnetic particle testing technician |
| **3215** | magnetic resonance imaging (MRI) technologist |
| **3215** | magnetic resonance technologist |
| **9411** | magnetic separator operator - primary metal processing |
| **9537** | magnetic valve assembler |
| **2111** | magnetism physicist |
| **9523** | magnetometer assembler - electronic equipment manufacturing |
| **6731** | maid - cleaning services |
| **1414** | mail and message distribution clerk |
| **1214** | mail and postal clerks supervisor |
| **1512** | mail carrier |
| **1214** | mail carriers supervisor |
| **1511** | mail clerk |
| **1511** | mail clerk - railway transport |
| **1214** | mail clerks supervisor |
| **1512** | mail collector |
| **1511** | mail counter clerk |
| **1513** | mail courier - courier service |
| **1512** | mail deliverer |
| **1511** | mail distribution clerk |
| **1214** | mail facilities senior administrator |
| **1511** | mail filing clerk |
| **1511** | mail handler |
| **0132** | mail operations manager |
| **1411** | mail order clerk |
| **1411** | mail order filler |
| **1511** | mail processing clerk |
| **0132** | mail processing plant manager |
| **0132** | mail processing plant superintendent |
| **1511** | mail room assistant |
| **1511** | mail room clerk |
| **1214** | mail room supervisor |
| **7514** | mail service courier |
| **1525** | mail service dispatcher |
| **1511** | mail sorter |
| **1511** | mail tracing clerk |

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|---|---|
| 1511 | mailer |
| 1452 | mailing list compiler |
| 1511 | mailing machine operator |
| 7311 | mail-processing equipment mechanic |
| 1511 | mail-sorting system operator |
| 9417 | main bearing borer - metal machining |
| 2174 | mainframe systems programmer |
| 7251 | maintenance and repair plumber |
| 7251 | maintenance and repair plumber (non-construction) |
| 0714 | maintenance and service manager |
| 0714 | maintenance and service superintendent |
| 7234 | maintenance boilermaker |
| 7281 | maintenance bricklayer |
| 7271 | maintenance carpenter |
| 7611 | maintenance carpenter helper |
| 7271 | maintenance carpenter-joiner |
| 7204 | maintenance carpenters foreman/woman |
| 7282 | maintenance cement mason |
| 0714 | maintenance co-ordinator |
| 0714 | maintenance director |
| 7242 | maintenance electrician - industrial |
| 7202 | maintenance electricians foreman/woman |
| 7202 | maintenance electricians supervisor |
| 7522 | maintenance equipment operator - public works |
| 2264 | maintenance inspector - construction |
| 7271 | maintenance joiner |
| 7621 | maintenance labourer - public works |
| 8612 | maintenance labourer, parks |
| 7244 | maintenance lineman/woman - electric power systems |
| 7201 | maintenance machine shop foreman/woman |
| 7231 | maintenance machinist |
| 6733 | maintenance man/woman, buildings |
| 0714 | maintenance manager |
| 7311 | maintenance mechanic |
| 7311 | maintenance mechanic - utilities |
| 7311 | maintenance mechanic technician - industrial |
| 7311 | maintenance millwright |
| 7531 | maintenance of way employee - railway |
| 7531 | maintenance of way inspector - railway |
| 0714 | maintenance operations manager |
| 0714 | maintenance operations superintendent |
| 7294 | maintenance painter |
| 7252 | maintenance pipefitter |
| 0714 | maintenance planner |
| 7251 | maintenance plumber |
| 6552 | maintenance service clerk |
| 1525 | maintenance services dispatcher |
| 0714 | maintenance services manager |
| 7233 | maintenance sheet metal worker |
| 0714 | maintenance superintendent |
| 0714 | maintenance support services chief |
| 2261 | maintenance technician - non-destructive testing (NDT) |
| 7442 | maintenance utility worker |
| 7237 | maintenance welder |
| 8255 | maintenance worker supervisor - campground |
| 7302 | maintenance-of-way foreman/woman |
| 6511 | maître d' |
| 6511 | maître d'hôtel |
| 0433 | major |
| 0423 | major community projects co-ordinator |
| 7332 | major electric appliance repairer |
| 7441 | major electric household appliance installer |
| 7332 | major electric household appliance repairer |
| 7441 | major electrical appliance installer |
| 7332 | major electrical appliance repairer |
| 7332 | major electrical appliance servicer |
| 0433 | major general |
| 5226 | make-up artist - motion pictures, broadcasting and performing arts |
| 5226 | make-up artist and hairdresser - performing arts |
| 5226 | make-up artist and wig maker |
| 6561 | make-up consultant |
| 2221 | malacology technician |
| 2121 | malariologist |
| 9461 | malt dryer tender - food and beverage processing |
| 9461 | malt roaster - food and beverage processing |
| 9461 | malthouse operator - food and beverage processing |
| 7452 | malthouse worker |
| 9461 | maltster - food and beverage processing |
| 2121 | mammalogist |
| 2221 | mammalogy technician |
| 2221 | mammalogy technologist |
| 3215 | mammography technician |
| 3215 | mammography technologist |
| 1111 | management accountant |
| 1111 | management accounting chief |
| 1122 | management analyst |
| 1122 | management consultant |
| 0125 | management consulting service manager |
| 0213 | management information system (MIS) manager |
| 2171 | management information systems (MIS) analyst |
| 2171 | management information systems (MIS) consultant |
| 2171 | management information systems consultant |
| 1221 | management planning officer |
| 4021 | management seminar leader |
| 1511 | management services clerk - mail and postal services |
| 0114 | management services division chief |
| 0125 | management services division head - business services |
| 0621 | management trainee - retail |
| 0012 | manager - First Nations |
| 0124 | manager - marketing services |

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| 0621 | manager - retail store chain |
| 0111 | manager of accounting department |
| 0111 | manager of auditing department |
| 0811 | manager of mining operations |
| 0621 | manager trainee - retail |
| 6512 | managing bartender |
| 0114 | managing director |
| 0512 | managing editor |
| 0512 | managing editor - newspaper or periodical |
| 3231 | managing optician |
| 0621 | managing supervisor - retail |
| 5244 | mandolin maker |
| 9423 | mandrel builder - rubber products manufacturing |
| 9441 | mangler tender - textile manufacturing |
| 6562 | manicurist |
| 9411 | manipulator machine operator - primary metal processing |
| 9416 | manipulator operator - metal forging |
| 5223 | mannequin artist |
| 9537 | mannequin assembler |
| 9422 | mannequin moulder - plastic manufacturing |
| 9537 | mannequin wig maker |
| 3237 | manual arts therapist |
| 7533 | manual cable ferry operator |
| 1423 | manual compositor |
| 7611 | manual concrete vibrator operator |
| 7611 | manual curb builder |
| 9412 | manual moulder |
| 7621 | manual sewer pipe cleaner |
| 7621 | manual sidewalk cleaner |
| 7611 | manual stone spreader operator |
| 7621 | manual street cleaner |
| 7621 | manual street sweeper |
| 7611 | manual terrazzo grinder |
| 5121 | manual writer |
| 9533 | manufactured home assembler |
| 7271 | manufactured house carpenter |
| 9533 | manufactured housing production worker |
| 6411 | manufacturer's agent - wholesale (non-technical) |
| 4163 | manufacturers' association analyst |
| 0423 | manufacturers' association manager |
| 6411 | manufacturer's representative - wholesale (non-technical) |
| 6221 | manufacturer's sales representative |
| 1111 | manufacturing accountant |
| 0016 | manufacturing company chief executive officer |
| 0911 | manufacturing company manager |
| 2233 | manufacturing cost estimator |
| 2141 | manufacturing engineer |
| 0911 | manufacturing industry manager |
| 7301 | manufacturing machinery assembly foreman/woman |
| 7316 | manufacturing machinery fitter |
| 0911 | manufacturing manager |
| 0911 | manufacturing operations manager |
| 9523 | manufacturing operator - electronic equipment manufacturing |
| 1523 | manufacturing order clerk |
| 1215 | manufacturing orders clerks supervisor |
| 9536 | manufacturing painter |
| 0911 | manufacturing plant manager |
| 0911 | manufacturing plant superintendent |
| 0212 | manufacturing research director |
| 2233 | manufacturing technician |
| 2233 | manufacturing technician - industrial engineering |
| 2233 | manufacturing technologist |
| 5122 | manuscript editor |
| 1452 | manuscript proofreader |
| 1411 | map clerk |
| 2255 | map draftsman/woman |
| 2255 | map editor |
| 8252 | maple products foreman/woman - agriculture |
| 8431 | maple syrup maker |
| 0821 | maple syrup producer |
| 8431 | maple tapping worker |
| 2131 | mapping engineer |
| 2271 | mapping pilot |
| 2255 | mapping technician |
| 9461 | maraschino cherry processor - food and beverage processing |
| 7205 | marble and terrazzo contractor-setter |
| 7205 | marble and terrazzo setter-contractor |
| 7205 | marble and terrazzo setting contractor |
| 9414 | marble carver - concrete, clay and stone forming |
| 9414 | marble cutter |
| 7283 | marble layer |
| 7283 | marble mason |
| 7283 | marble mechanic |
| 7283 | marble setter |
| 7611 | marble setter helper |
| 7205 | marble setters foreman/woman |
| 7205 | marble setting foreman/woman |
| 7283 | marble tilesetter |
| 9461 | margarine blender |
| 9461 | margarine clarifier - food and beverage processing |
| 9461 | margarine processor |
| 1434 | margin calculation clerk - financial sector |
| 6621 | marina attendant |
| 0714 | marina manager |
| 0714 | marina operator |
| 6621 | marina worker |
| 1313 | marine and aircraft underwriter - insurance |
| 2221 | marine biological technician |
| 2121 | marine biologist |
| 2221 | marine biology technician |
| 2221 | marine biology technologist |
| 7234 | marine boilermaker |
| 2262 | marine cargo surveyor |

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| **1312** | marine claims adjuster - insurance |
| **9535** | marine craft plastic panelling assembler |
| **2221** | marine culture technologist |
| **2262** | marine damage surveyor |
| **2253** | marine drafting supervisor |
| **7242** | marine electrician |
| **7612** | marine electrician helper |
| **7202** | marine electricians foreman/woman |
| **7311** | marine engine mechanic |
| **7311** | marine engine mechanic apprentice |
| **7532** | marine engine oiler |
| **9526** | marine engine quality-control assembly inspector |
| **2148** | marine engineer |
| **2274** | marine engineer officer |
| **2274** | marine engineer officer - water transport |
| **2274** | marine engineer officer-cadet (except armed forces) |
| **7532** | marine engineering mechanic |
| **7532** | marine engineering technician |
| **2232** | marine engineering technologist |
| **7242** | marine equipment electrician |
| **2221** | marine farming technologist |
| **2113** | marine geologist |
| **21[illegible]3** | marine geophysicist |
| **2212** | marine geoscience technologist |
| **2121** | marine hydrobiologist |
| **1312** | marine insurance adjuster |
| **2121** | marine mammal trainer |
| **2132** | marine mechanical engineer |
| **7532** | marine oiler |
| **0731** | marine operations manager |
| **0731** | marine operations superintendent |
| **7203** | marine pipe fitters foreman/woman |
| **7252** | marine pipefitter |
| **8613** | marine plant gatherer |
| **7251** | marine plumber |
| **7521** | marine railway operator |
| **7384** | marine repair technician |
| **2274** | marine second engineer - water transport |
| **2274** | marine senior engineer - water transport |
| **7301** | marine service foreman/woman - engine repair |
| **7252** | marine steamfitter |
| **7235** | marine steel fitter |
| **0731** | marine superintendent |
| **2262** | marine surveyor |
| **2148** | marine systems engineer |
| **2275** | marine traffic controller |
| **2275** | marine traffic regulator |
| **0731** | marine transportation operations manager |
| **1313** | marine underwriter - insurance |
| **7242** | marine wireman/woman |
| **5232** | marionette handler |
| **4153** | marital counsellor |
| **5136** | maritime art painter |
| **6741** | marker - laundry and dry cleaning |
| **4012** | marker - post-secondary teaching assistance |
| **9611** | marker - primary metal processing |
| **0412** | market analysis director - government services |
| **4163** | market analyst - non-financial |
| **0412** | market development director |
| **0124** | market development manager |
| **8431** | market garden worker |
| **0821** | market gardener |
| **4163** | market intelligence analyst |
| **4163** | market research analyst |
| **0125** | market research service manager |
| **4163** | market research specialist |
| **4163** | market researcher |
| **4163** | marketing analysis specialist |
| **4163** | marketing analyst |
| **4163** | marketing analyst - non-financial |
| **4163** | marketing consultant - market research |
| **4163** | marketing consultant - wholesale |
| **1123** | marketing co-ordinator |
| **0124** | marketing director |
| **0124** | marketing executive |
| **0124** | marketing manager |
| **4163** | marketing project officer - market research |
| **4163** | marketing research specialist |
| **4163** | marketing researcher |
| **1123** | marketing specialist - advertising |
| **4021** | marketing teacher - college level |
| **0016** | marketing vice-president - airline |
| **0013** | marketing vice-president - clerical staff services |
| **0013** | marketing vice-president - financial, communications and other business services |
| **0016** | marketing vice-president - goods production, utilities, transportation and construction |
| **0015** | marketing vice-president - grocery store chain |
| **0014** | marketing vice-president - health, education, social and community services and membership organizations |
| **0015** | marketing vice-president - trade, broadcasting and other services |
| **1423** | markup person |
| **1423** | markup person - typesetting |
| **9532** | marquetry worker - furniture manufacturing |
| **4153** | marriage and family therapist |
| **4153** | marriage and family therapist (MFT) |
| **4153** | marriage consultant |
| **4153** | marriage counsellor |
| **4153** | marriage therapist |
| **4153** | marriage therapist (MT) |
| **9461** | marshmallow maker |
| **5254** | martial arts instructor |
| **9461** | marzipan maker |
| **5232** | mascot |
| **9461** | mash dryer - food and beverage processing |

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| **9461** | mash operator - food and beverage processing |
| **9465** | mashgiach - food and beverage processing |
| **9619** | masker |
| **2264** | masonry inspector |
| **7611** | masonry pointer and caulker |
| **7281** | masonry silo erector |
| **7611** | mason's helper |
| **2211** | mass spectrometer technician |
| **2211** | mass spectrometer technologist |
| **2211** | mass spectrometry technician |
| **2153** | mass transit services analyst |
| **0651** | massage parlour manager |
| **3236** | massage therapist (MT) |
| **6564** | massager |
| **6564** | masseur/masseuse |
| **3236** | masso kinesitherapist |
| **3236** | massotherapist |
| **2273** | master - inland waters |
| **2273** | master - minor waters |
| **2273** | master - water transport |
| **6321** | master chef |
| **5224** | master control room (MCR) equipment operator - broadcasting |
| **5224** | master control room (MCR) technician - broadcasting |
| **4313** | master corporal |
| **2211** | master dyer - textiles |
| **5244** | master glass blower |
| **5244** | master glassmaker |
| **7231** | master machinist |
| **2273** | master mariner |
| **5231** | master of ceremonies (MC) |
| **9232** | master operator - chemical processing |
| **9445** | master pattern cutter |
| **5225** | master record cutter |
| **4313** | master seaman |
| **6342** | master tailor |
| **4313** | master warrant officer |
| **2273** | master, self-propelled drilling rig |
| **9421** | match head maker |
| **9537** | match inspector |
| **9435** | matchbook comb-cutting machine tender |
| **9435** | matchbook folding-stapling machine tender |
| **9537** | matchbook inspector |
| **9534** | matcher - furniture finishing and refinishing |
| **2273** | mate - water transport |
| **0113** | material and services purchasing manager |
| **1523** | material checker |
| **1215** | material clerks supervisor |
| **1215** | material control co-ordinator |
| **0114** | material control manager |
| **1523** | material co-ordinator |
| **1523** | material estimator |
| **7452** | material handler |
| **7452** | material handler - manufacturing and warehousing |
| **7311** | material handling equipment mechanic |
| **1522** | material keeper |
| **0113** | material manager |
| **9446** | material mender |
| **1225** | material purchasing officer |
| **9226** | material-handling equipment assembly foreman/woman |
| **6221** | material-handling equipment salesperson |
| **8411** | materialman/woman - underground mining |
| **1225** | materials co-ordinator |
| **2142** | materials engineer |
| **2115** | materials engineering scientist |
| **2233** | materials handling technician |
| **2115** | materials scientist |
| **2231** | materials testing technician |
| **2231** | materials testing technologist |
| **1225** | materiel management officer |
| **2111** | mathematical biophysicist |
| **4162** | mathematical economist |
| **0212** | mathematical services manager |
| **2161** | mathematical statistician |
| **2161** | mathematician |
| **4166** | mathematics co-ordinator - education |
| **0212** | mathematics department director |
| **4011** | mathematics professor - university |
| **0212** | mathematics program manager |
| **4021** | mathematics teacher - college level |
| **4031** | mathematics teacher - secondary school |
| **4422** | matron - correctional service |
| **9214** | matting inspection foreman/woman - rubber manufacturing |
| **9214** | matting inspection supervisor - rubber products manufacturing |
| **9532** | mattress assembler - furniture manufacturing |
| **9532** | mattress inspector |
| **9532** | mattress maker |
| **9224** | mattress manufacturing foreman/woman |
| **9532** | mattress manufacturing inspector |
| **9442** | mattress sewing machine operator |
| **0011** | mayor |
| **5231** | MC (master of ceremonies) |
| **5224** | MCR (master control room) equipment operator |
| **5224** | MCR (master control room) technician - broadcasting |
| **3112** | MD (doctor of medicine) |
| **4212** | meals-on-wheels worker |
| **2262** | measurement specialist - oil and gas |
| **2262** | measurement technician - oil and gas inspection |
| **2243** | measurement technician - oil and gas installation |
| **7611** | measurer |
| **2231** | measures technician |
| **9441** | measuring machine tender - hide and pelt processing |
| **9462** | meat boner |

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| 6222 | meat buyer |
| 9461 | meat canner |
| 6321 | meat chef |
| 9461 | meat chopper - food and beverage processing |
| 9462 | meat chopper - meat packing plant |
| 9461 | meat cook - food and beverage processing |
| 6421 | meat counter clerk |
| 9461 | meat curer |
| 9462 | meat cutter - meat packing plant |
| 6331 | meat cutter - retail or wholesale |
| 6622 | meat cutter helper - supermarket |
| 9213 | meat cutting plant foreman/woman |
| 6622 | meat department assistant - supermarket |
| 0621 | meat department manager - food store |
| 0621 | meat department manager - retail |
| 6211 | meat department supervisor |
| 9462 | meat dresser - meat packing plant |
| 9617 | meat dryer |
| 9465 | meat grader |
| 9461 | meat grinder - food and beverage processing |
| 2222 | meat hygiene inspector |
| 2222 | meat inspection supervisor |
| 2222 | meat inspector |
| 9617 | meat loaf trimmer |
| 9461 | meat mincer - food and beverage processing |
| 9461 | meat mincer - packaging |
| 9461 | meat mixer |
| 9617 | meat mould sealer |
| 9617 | meat mould stripper |
| 9461 | meat moulder - food and beverage processing |
| 9617 | meat packager |
| 9617 | meat packager - food and beverage processing |
| 9617 | meat packer - food and beverage processing |
| 9213 | meat packing supervisor |
| 9461 | meat pickler |
| 9462 | meat portion cutter - meat packing plant |
| 6331 | meat portion cutter - retail or wholesale |
| 9617 | meat press tender |
| 9462 | meat roll tier - food and beverage processing |
| 9461 | meat salter |
| 9462 | meat sawyer - meat packing plant |
| 9462 | meat tenderizer - food and beverage processing |
| 9462 | meat trimmer |
| 9462 | meat trimmer - meat packing plant |
| 9617 | meat vacuum wrapper |
| 9617 | meat washer |
| 9617 | meat wrapper |
| 6622 | meat wrapper - grocery store |
| 6321 | meat, poultry and fish chef |
| 9617 | meat-packing plant labourer |
| 9617 | meat-rolling machine tender |
| 7321 | mechanic - motor vehicle manufacturing |
| 7311 | mechanic - utilities |

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|---|---|
| 7612 | mechanic helper |
| 9522 | mechanic, road tests - motor vehicle manufacturing |
| 9526 | mechanical assembler |
| 7532 | mechanical assistant - water transport |
| 7532 | mechanical assistant, ship's engine room |
| 2253 | mechanical building draftsperson |
| 7303 | mechanical composition foreman/woman - printing |
| 2253 | mechanical design draftsperson |
| 2132 | mechanical design engineer |
| 2253 | mechanical draftsperson |
| 2132 | mechanical engineer |
| 2232 | mechanical engineering design technologist |
| 2232 | mechanical engineering development technologist |
| 2232 | mechanical engineering equipment designer |
| 4011 | mechanical engineering professor - university |
| 0211 | mechanical engineering service manager |
| 2232 | mechanical engineering technician |
| 2232 | mechanical engineering technologist |
| 2232 | mechanical equipment engineering assistant |
| 7301 | mechanical equipment repair inspection foreman/woman |
| 7301 | mechanical equipment repair inspectors foreman/woman |
| 2234 | mechanical estimator - construction |
| 7316 | mechanical fitter |
| 8241 | mechanical harvester and forwarder operator |
| 8241 | mechanical harvester operator - logging |
| 7371 | mechanical hoist operator |
| 2132 | mechanical hydraulic engineer |
| 9522 | mechanical inspector - motor vehicle manufacturing |
| 7301 | mechanical inspectors foreman/woman |
| 2132 | mechanical maintenance engineer |
| 7301 | mechanical maintenance foreman/woman - utilities |
| 7301 | mechanical maintenance supervisor |
| 7301 | mechanical maintenance supervisor - manufacturing |
| 2232 | mechanical marine engineering technician |
| 7445 | mechanical meter repairer |
| 2132 | mechanical power engineer |
| 9416 | mechanical press operator - metal products manufacturing |
| 9612 | mechanical press operator helper - metal products manufacturing |
| 9526 | mechanical pump assembler |
| 9522 | mechanical quality assurance inspector - motor vehicle manufacturing |
| 0714 | mechanical services superintendent |
| 7522 | mechanical sweeper operator - public works |
| 7315 | mechanical systems aircraft maintenance engineer (AME) |
| 7531 | mechanical tamper operator - railway |

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|---|---|
| **2232** | mechanical technical inspector |
| **2232** | mechanical technologist |
| **4021** | mechanical technology teacher - college level |
| **9522** | mechanical test technician - motor vehicle manufacturing |
| **9619** | mechanical tester, insulators |
| **8241** | mechanical tree processor and loader operator |
| **8241** | mechanical tree processor operator - logging |
| **7321** | mechanical upgrader - motor vehicle manufacturing |
| **7612** | mechanic-fitter helper |
| **7301** | mechanics foreman/woman |
| **7612** | mechanic's helper - automotive |
| **2111** | mechanics physicist |
| **2121** | mechanistic toxicologist |
| **2132** | mechatronic engineer |
| **0124** | media advertising manager |
| **1225** | media buyer |
| **1123** | media co-ordinator |
| **1225** | media estimator |
| **1123** | media events co-ordinator |
| **1123** | media relations co-ordinator |
| **0124** | media relations director |
| **0124** | media relations manager |
| **1123** | media relations officer |
| **1225** | media time and space buyer |
| **6411** | media time sales representative |
| **1251** | media transcriber |
| **1251** | media transcriptionist |
| **1121** | mediator |
| **1121** | mediator - labour relations |
| **4165** | medical adjudicator - Canada Pension Plan |
| **1243** | medical administrative assistant |
| **3413** | medical aide |
| **1253** | medical archivist |
| **3234** | medical assistant (paramedic) |
| **3413** | medical attendant - patient transfer |
| **3111** | medical bacteriologist |
| **2112** | medical biochemist |
| **3111** | medical biochemist - physician |
| **2111** | medical biophysicist |
| **2112** | medical chemist |
| **1312** | medical claims assessor - insurance |
| **3414** | medical clinic assistant |
| **0311** | medical clinic director |
| **1414** | medical clinic receptionist |
| **1251** | medical dictatypist |
| **0311** | medical director |
| **3112** | medical doctor |
| **5122** | medical editor |
| **2111** | medical engineering biophysicist |
| **6221** | medical equipment and supplies salesperson |
| **3111** | medical examiner |
| **3111** | medical geneticist |
| **3111** | medical genetics specialist |
| **5241** | medical illustrator |
| **1222** | medical information assistant |
| **3414** | medical instrument sterilizer |
| **2241** | medical instruments repairer |
| **6221** | medical instruments sales agent |
| **3012** | medical intensive care nurse |
| **3212** | medical laboratory aide |
| **3212** | medical laboratory assistant |
| **2241** | medical laboratory equipment repairer |
| **3212** | medical laboratory helper |
| **3211** | medical laboratory supervisor |
| **3212** | medical laboratory technical assistant |
| **3211** | medical laboratory technical supervisor |
| **3212** | medical laboratory technician |
| **3211** | medical laboratory technologist |
| **3211** | medical laboratory technologist - anatomical pathology |
| **5111** | medical librarian |
| **3414** | medical material handler |
| **3111** | medical microbiologist |
| **3112** | medical missionary |
| **1414** | medical office assistant |
| **1414** | medical office secretary-receptionist |
| **3112** | medical officer of health (MOH) |
| **3111** | medical oncologist |
| **3111** | medical oncology specialist |
| **3413** | medical orderly |
| **3111** | medical parasitologist |
| **2121** | medical parasitology biologist |
| **3111** | medical pathologist |
| **5221** | medical photographer |
| **2111** | medical physicist |
| **3111** | medical physiologist |
| **3232** | medical Qi gong pactitioner |
| **3215** | medical radiation technologist |
| **3215** | medical radiation technologists supervisor |
| **3215** | medical radiographer |
| **1414** | medical receptionist |
| **1411** | medical records clerk |
| **0114** | medical records department manager |
| **4021** | medical records management program teacher |
| **0114** | medical records manager |
| **1252** | medical records supervisor |
| **1252** | medical records technician |
| **1252** | medical records technicians supervisor |
| **1252** | medical records unit supervisor |
| **4011** | medical sciences professor - university |
| **1243** | medical secretary |
| **4152** | medical social worker |
| **4169** | medical sociologist |
| **3216** | medical sonographer |
| **3216** | medical sonographers supervisor |
| **3111** | medical specialist |
| **2161** | medical statistician |
| **1243** | medical stenographer |
| **1522** | medical supply attendant |

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|---|---|
| **1522** | medical supply clerk |
| **3234** | medical technician |
| **3211** | medical technologist |
| **3211** | medical technologist - medical laboratory |
| **3211** | medical technologists supervisor |
| **4021** | medical technology teacher |
| **5125** | medical terminologist |
| **1251** | medical transcriptionist |
| **5125** | medical translator |
| **0014** | medical vice-president - health services |
| **5121** | medical writer |
| **2112** | medicinal chemist |
| **4011** | medicine professor - university |
| **6564** | medium |
| **1226** | meeting co-ordinator |
| **1226** | meeting planner |
| **6562** | mehndi tattoo artist |
| **9611** | melt shop helper |
| **9611** | melt shop labourer |
| **9412** | melter - foundry |
| **9231** | melter - primary metal processing |
| **9611** | melter helper - primary metal and mineral products processing |
| **9461** | melter tender - food and beverage processing |
| **9211** | melting and roasting department supervisor |
| **9211** | melting and roasting foreman/woman - primary metal and mineral products processing |
| **9211** | melting and roasting furnace foreman/woman - primary metal and mineral products processing |
| **9211** | melting and roasting operations foreman/woman - primary metal and mineral products processing |
| **9211** | melting-furnace and roasting-furnace foreman/woman - primary metal and mineral products processing |
| **0011** | Member of Legislative Assembly (MLA) |
| **0011** | Member of Parliament (MP) |
| **0011** | Member of the House of Assembly (MHA) |
| **0011** | Member of the National Assembly (MNA) |
| **0011** | Member of the Provincial Parliament (MPP) |
| **0014** | membership organization general manager |
| **6411** | membership sales representative |
| **0423** | membership services manager |
| **5243** | memorial designer |
| **6421** | memorial salesperson - retail |
| **5245** | men's and women's wear patternmaker |
| **6421** | men's clothing sales clerk |
| **6421** | men's clothing salesperson - retail |
| **6342** | men's garment alterations tailor |
| **6341** | men's hairdresser |
| **0423** | men's hostel manager |
| **6421** | men's wear sales clerk |
| **4153** | mental health counsellor |
| **3012** | mental health nurse |
| **4212** | mental health proctor |
| **4165** | mental health programs consultant |
| **0311** | mental health residential care program manager |
| **4212** | mental health support worker |
| **4212** | mental health worker |
| **6564** | mental telepathist |
| **9441** | mercerizer - textile manufacturing |
| **9441** | mercerizer machine operator - textile manufacturing |
| **1212** | merchandise clerks supervisor |
| **6552** | merchandise exchange clerk |
| **0113** | merchandise purchasing director |
| **0113** | merchandise purchasing manager |
| **6222** | merchandiser |
| **9461** | merchant miller - food and beverage processing |
| **2273** | merchant navy mate |
| **6235** | merchant services specialist - financial |
| **9421** | mercury recoverer - chemical processing |
| **6722** | merry-go-round operator |
| **7237** | mesh-welding machine operator |
| **6322** | mess cook |
| **6513** | mess waiter/waitress |
| **1513** | message carrier |
| **1513** | message deliverer |
| **1513** | messenger |
| **0132** | messenger service manager |
| **1511** | messenger service representative |
| **1214** | messenger service supervisor |
| **1513** | messenger-clerk |
| **7301** | metal and woodworking machinery manufacturing foreman/woman |
| **9411** | metal annealing tender |
| **5244** | metal arts worker |
| **9418** | metal awning machine operator |
| **9417** | metal band saw operator |
| **9418** | metal blade sharpener operator |
| **9536** | metal bluer |
| **9612** | metal bluing cleaner - metal products manufacturing |
| **7237** | metal brazier and heater |
| **9612** | metal buffer - metal products manufacturing |
| **9226** | metal buffers foreman/woman |
| **9226** | metal buffing foreman/woman |
| **9532** | metal cabinet assembler |
| **9418** | metal cable machine operator |
| **9418** | metal cable maker |
| **9418** | metal cable maker operator |
| **9418** | metal cable stretcher and tester |
| **9532** | metal casket assembler |
| **9412** | metal caster |
| **9412** | metal caster - foundry |
| **9211** | metal casters, moulders and coremakers foreman/woman |
| **9612** | metal casting finisher |

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| **9211** | metal casting, moulding and coremaking foreman/woman |
| **9532** | metal chair assembler |
| **9612** | metal cleaner |
| **9612** | metal cleaner - metal products manufacturing |
| **9612** | metal cleaner, immersion - metal products manufacturing |
| **9536** | metal coater |
| **9536** | metal coater operator |
| **9536** | metal coating-equipment operator |
| **9416** | metal cut-off saw operator |
| **0621** | metal dealer |
| **3223** | metal dental technician |
| **9536** | metal dipper |
| **9537** | metal door frame assembler |
| **9536** | metal electroplater |
| **9536** | metal electroplating inspector |
| **5244** | metal engraver |
| **9411** | metal extrusion press operator - primary metal processing |
| **9416** | metal fabricating machine operator |
| **9612** | metal fabrication worker |
| **7235** | metal fabricator |
| **7235** | metal fabricator - structural metal and platework |
| **7235** | metal fabricator (fitter) |
| **7201** | metal fabricator foreman/woman |
| **7441** | metal fence erector |
| **9612** | metal filer, hand |
| **7322** | metal finish and touch-up repairer - motor vehicle manufacturing |
| **7322** | metal finisher - motor vehicle manufacturing |
| **7201** | metal fitters foreman/woman |
| **9418** | metal floor lamp maker |
| **7611** | metal form setter - construction |
| **9412** | metal frame moulder - foundry |
| **7271** | metal framer - carpentry |
| **9532** | metal furniture assembler |
| **9224** | metal furniture assembly foreman/woman |
| **9532** | metal furniture inspector |
| **7233** | metal furniture model maker |
| **7233** | metal furniture patternmaker |
| **9534** | metal furniture repairer |
| **9411** | metal hardener - primary metal processing |
| **9532** | metal hardware installer - furniture manufacturing |
| **9231** | metal heater - primary metal processing |
| **9231** | metal heater operator |
| **9211** | metal heat-treating foreman/woman - primary metal processing |
| **9611** | metal impregnator - primary metal processing |
| **7237** | metal inert gas (MIG) welder |
| **7284** | metal lather |
| **9532** | metal locker assembler |
| **9231** | metal melter |
| **9411** | metal mixer - primary metal processing |
| **9411** | metal mixer operator - primary metal processing |
| **7201** | metal mould and metal patternmakers foreman/woman |
| **7201** | metal mould and metal patternmakers supervisor |
| **7232** | metal mould finisher |
| **7232** | metal mould maker |
| **9418** | metal nut former |
| **9418** | metal nut maker |
| **9416** | metal parts inspector |
| **7232** | metal patternmaker |
| **7232** | metal patternmaker apprentice |
| **2111** | metal physicist |
| **9612** | metal pickler operator helper |
| **9418** | metal pin maker |
| **9418** | metal pipe cutter machine operator |
| **9418** | metal pipe cutter operator |
| **9536** | metal plater-polisher |
| **9536** | metal plating-equipment operator |
| **9411** | metal pointer operator - primary metal processing |
| **9612** | metal polisher helper |
| **9418** | metal polisher, automatic machine |
| **9411** | metal pourer - metal processing |
| **9611** | metal pourer helper |
| **9611** | metal pourer helper - primary metal processing |
| **9611** | metal powder lubricator finisher |
| **9416** | metal power saw operator |
| **7235** | metal preparation lead hand - structural metal and platework |
| **9415** | metal processing inspector |
| **9536** | metal product spray painter |
| **9537** | metal products assembler |
| **9226** | metal products inspection and testing foreman/woman |
| **9418** | metal products manufacturing machine operator |
| **6221** | metal products salesperson |
| **9411** | metal reclaimer |
| **7322** | metal repairer - motor vehicle manufacturing |
| **9231** | metal roaster - primary metal processing |
| **9211** | metal rolling foreman/woman |
| **7291** | metal roofer |
| **7611** | metal roofer helper - construction |
| **9417** | metal saw tooth grinder |
| **9416** | metal sawing machine operator |
| **7236** | metal scaffold erector |
| **7611** | metal scaffold erector helper |
| **9418** | metal screened door and window maker |
| **5136** | metal sculptor |
| **7201** | metal shapers foreman/woman |
| **7235** | metal shipwright |
| **7201** | metal shipwright foreman/woman |
| **9231** | metal smelter |

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|---|---|
| 9211 | metal smelting, converting and refining foreman/woman |
| 7237 | metal solderer |
| 9416 | metal spinner |
| 9418 | metal sponge machine tender |
| 9418 | metal sponge maker |
| 9536 | metal spray operator |
| 9536 | metal sprayer |
| 7237 | metal straightener and heater |
| 9415 | metal strength tester - primary metal processing |
| 7236 | metal structure erector |
| 9612 | metal structure fitter helper |
| 9532 | metal table assembler |
| 9416 | metal table saw operator |
| 9418 | metal tack maker |
| 7236 | metal tank erecting ironworker |
| 9415 | metal tensile strength tester - primary metal processing |
| 7611 | metal trim erector helper |
| 9611 | metal tube marker - primary metal processing |
| 7322 | metal upgrader - motor vehicle manufacturing |
| 7236 | metal wall framing installer |
| 7236 | metal wall framing ironworker |
| 7236 | metal wall installation ironworker |
| 7237 | metal welder |
| 0911 | metal works fabrication manager |
| 9418 | metal-bonding equipment operator |
| 9536 | metal-dipping equipment operator |
| 9211 | metal-extruding and metal-drawing foreman/woman |
| 9612 | metal-fabricating shop helper |
| 9416 | metal-forming machine set-up operator |
| 9416 | metal-forming machine tender |
| 9536 | metal-leaf gilder |
| 9536 | metallizer |
| 2115 | metallographer |
| 2212 | metallurgical control analyst |
| 2142 | metallurgical engineer |
| 4011 | metallurgical engineering professor - university |
| 2212 | metallurgical engineering technician |
| 2212 | metallurgical engineering technologist |
| 2212 | metallurgical technologist |
| 2115 | metallurgist |
| 4011 | metallurgy professor - university |
| 7201 | metal-machining inspection foreman/woman |
| 5112 | metals conservator |
| 9537 | metal-sheathed insulation former |
| 9416 | metal-stamping press operator |
| 9418 | metal-twisting machine tender |
| 7201 | metalwork forming, shaping and installing contractor |
| 9612 | metalworking machine helper |
| 9416 | metalworking machine operator |
| 9226 | metalworking machine operators foreman/woman |
| 9416 | metalworking machine setter |
| 9416 | metalworking machine set-up man/woman |
| 9416 | metalworking machine set-up operator |
| 7311 | metalworking machinery mechanic |
| 9418 | metalworking weaver - metal products manufacturing |
| 2255 | meteorological aide |
| 2255 | meteorological inspector |
| 2255 | meteorological technician |
| 2114 | meteorologist |
| 4011 | meteorology professor - university |
| 9537 | meter assembler |
| 2133 | meter engineer |
| 7244 | meter installer - electric power systems |
| 7202 | meter installers and repairers foreman/woman |
| 1454 | meter reader |
| 1411 | meter records clerk |
| 7333 | meter repair electrical mechanic |
| 7301 | meter repair shop foreman/woman |
| 7445 | meter repairer |
| 7445 | meter servicer |
| 7301 | meter shop foreman/woman |
| 2241 | metering technologist |
| 1122 | methods and cost analyst |
| 1122 | methods and procedures analyst |
| 0125 | methods and procedures manager |
| 2233 | methods designer |
| 2141 | methods engineer |
| 0411 | Métis development programs regional director - government services |
| 2241 | metrics technologist |
| 2111 | metrologist |
| 2133 | metrology engineer |
| 2241 | metrology technician |
| 2241 | metrology technologist |
| 0011 | metropolitan council chair |
| 5133 | mezzo-soprano |
| 9523 | mica capacitor assembler |
| 9411 | mica crusher tender |
| 9411 | mica plate tender |
| 9411 | mica press tender |
| 9211 | mica processing foreman/woman |
| 9524 | mica products maker |
| 9411 | mica sheet laminator |
| 9411 | mica sheet salvager |
| 9411 | mica splitter |
| 9411 | mica trimmer |
| 2221 | microbiological technician |
| 2121 | microbiologist |
| 2221 | microbiology quality control technologist |
| 2221 | microbiology technician (except medical) |
| 3211 | microbiology technologist - medical laboratory |
| 2221 | microbiology technologist (except medical) |

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| **9523** | microcircuit assembler |
| **0412** | microeconomic policy development director - government services |
| **2132** | micro-electro-mechanical systems (MEMS) research engineer |
| **9523** | microelectronic circuit fabricator |
| **2133** | microelectronics engineer |
| **1253** | microfilm camera operator |
| **1253** | microfilm mounter |
| **1253** | microfilm records searcher |
| **1253** | microfilmer |
| **2113** | micropaleontologist |
| **2147** | microprocessor designer and application engineer |
| **0131** | microwave facilities manager - telecommunications |
| **2241** | microwave maintenance technician |
| **2111** | microwave physicist |
| **7202** | microwave system foreman/woman |
| **2147** | microwave systems engineer |
| **2147** | microwave transmission systems engineer |
| **3124** | midwife |
| **7237** | MIG (metal inert gas) welder |
| **4169** | military historian |
| **4313** | military police officer |
| **4313** | military policeman/woman |
| **1521** | milk and cream receiver - food and beverage processing |
| **7514** | milk deliverer |
| **9461** | milk dryer - food and beverage processing |
| **9465** | milk grader |
| **2222** | milk inspector |
| **9461** | milk pasteurizer - food and beverage processing |
| **9617** | milk powder grinder |
| **9213** | milk processing foreman/woman |
| **9213** | milk processing plant foreman/woman |
| **8431** | milk production labourer |
| **9465** | milk receiver-tester |
| **9617** | milk sampler |
| **6221** | milking machine salesperson |
| **8431** | milking machine tender |
| **8252** | milking services contractor |
| **7514** | milkman/woman |
| **9461** | milk-processing equipment operator - food and beverage processing |
| **7271** | mill carpenter |
| **9613** | mill charger - chemical processing |
| **7242** | mill electrician |
| **9611** | mill helper - primary metal and mineral products processing |
| **9611** | mill labourer - mineral products processing |
| **7311** | mill maintenance mechanic |
| **0911** | mill manager |
| **7612** | mill mechanic helper |
| **9423** | mill operator - rubber processing |
| **9423** | mill operator - rubber products manufacturing |
| **9612** | mill roll grinder - metal products manufacturing |
| **9421** | mill roll tester - chemical processing |
| **0911** | mill superintendent |
| **9421** | mill tender - chemical processing |
| **9414** | mill tender - clay products |
| **9423** | mill tender - rubber products manufacturing |
| **9615** | milled rubber cooler |
| **9461** | miller - food and beverage processing |
| **9418** | miller, saw blades |
| **9434** | miller, wood flour |
| **6342** | milliner |
| **9217** | millinery foreman/woman - fabric, fur and leather products manufacturing |
| **6342** | millinery maker |
| **9417** | milling machine operator - metal machining |
| **9411** | milling machine operator - mineral and metal processing |
| **9417** | milling machine setter |
| **9417** | milling machine set-up operator |
| **9417** | milling machine set-up operator - metal machining |
| **9211** | milling plant foreman/woman - primary metal and mineral products processing |
| **9214** | millroom foreman/woman - rubber products manufacturing |
| **9423** | millroom operator - rubber products manufacturing |
| **9214** | millroom supervisor - rubber products manufacturing |
| **9414** | millstone cutter - stone products |
| **9533** | millwork assembler |
| **9533** | millwork assembler - wood products manufacturing |
| **9227** | millwork assemblers foreman/woman - wood products manufacturing |
| **9227** | millwork assembly foreman/woman |
| **9227** | millwork assembly foreman/woman - wood products manufacturing |
| **9227** | millwork assembly supervisor |
| **7311** | millwright |
| **7311** | millwright apprentice |
| **7301** | millwright foreman/woman |
| **7612** | millwright helper |
| **7311** | millwright industrial |
| **5135** | mime |
| **5232** | mimic |
| **9461** | mincemeat maker |
| **2212** | mine analyst |
| **8411** | mine attendant |
| **8221** | mine captain |
| **7271** | mine carpenter |
| **8614** | mine check weigher |
| **2264** | mine construction inspector |
| **8411** | mine construction worker |

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| **2143** | mine design engineer |
| **2143** | mine development engineer |
| **2212** | mine development technologist |
| **1525** | mine dispatcher |
| **2253** | mine draftsperson |
| **7242** | mine electrician |
| **2263** | mine examiner |
| **8221** | mine foreman/woman |
| **2113** | mine geologist |
| **6531** | mine guide |
| **8614** | mine helper |
| **8614** | mine helper - underground mining |
| **7311** | mine hoist industrial mechanic |
| **7311** | mine hoist machinery mechanic |
| **7311** | mine hoist repairer |
| **2264** | mine inspector, construction |
| **8614** | mine labourer |
| **2143** | mine layout engineer |
| **7312** | mine locomotive repairman/woman |
| **0811** | mine manager |
| **7311** | mine mechanic |
| **8411** | mine motorman/woman |
| **2143** | mine planning engineer |
| **2143** | mine production engineer |
| **2212** | mine production technician |
| **2143** | mine safety engineer |
| **2263** | mine safety inspector |
| **0811** | mine superintendent |
| **8221** | mine supervisor |
| **2212** | mine survey technician |
| **2212** | mine survey technologist |
| **8411** | mine timberman/woman |
| **2143** | mine ventilation engineer |
| **8231** | miner |
| **8411** | miner helper - raise mining |
| **8614** | miner helper - underground mining |
| **2143** | mineral dressing engineer |
| **2143** | mineral engineer |
| **0125** | mineral land administration manager |
| **0125** | mineral land and contract manager |
| **1225** | mineral land contracts analyst |
| **9415** | mineral sampler - mineral products processing |
| **2212** | mineral technician |
| **2212** | mineral technologist |
| **4021** | mineral technology teacher - college of applied arts and technology |
| **2113** | mineralogist |
| **2212** | mineralogy technician |
| **2212** | mineralogy technologist |
| **2143** | mines exploration engineer |
| **9461** | mingler tender |
| **2174** | minicomputer systems programmer |
| **6722** | mini-golf attendant |
| **2143** | mining engineer |
| **2212** | mining engineering technician |
| **2212** | mining engineering technologist |
| **7311** | mining equipment master mechanic |
| **6221** | mining equipment sales engineer |
| **6221** | mining equipment sales representative |
| **2113** | mining geologist |
| **4163** | mining industry development consultant |
| **8231** | mining machine operator |
| **7316** | mining machinery fitter |
| **7311** | mining machinery mechanic |
| **0811** | mining operations director |
| **0811** | mining operations manager |
| **4021** | mining rescue instructor |
| **0212** | mining research director |
| **7521** | mining shovel operator (except underground) |
| **2212** | mining survey technician |
| **2212** | mining survey technologist |
| **2212** | mining technician |
| **2212** | mining technologist |
| **4154** | minister |
| **4154** | minister - religion |
| **1222** | ministerial assistant |
| **9522** | minivan assembler - motor vehicle manufacturing |
| **8252** | mink farm supervisor |
| **8252** | mink ranch supervisor |
| **9445** | mink tail slitter - fur products manufacturing |
| **9411** | mint precious metal refiner - primary metal processing |
| **9532** | mirror and picture frame assembler |
| **9532** | mirror and picture frame maker |
| **9537** | mirror assembler |
| **9537** | mirror framer |
| **9413** | mirror maker |
| **9413** | mirror silverer |
| **9227** | mirror silvering foreman/woman |
| **7292** | mirror wall installer |
| **9413** | mirror-silvering equipment operator |
| **2171** | MIS (management information systems) analyst |
| **2244** | missile electronics inspector |
| **2244** | missile electrotechnician - avionics |
| **4217** | missionary |
| **3112** | missionary doctor |
| **9437** | mitre saw tender - woodworking |
| **0821** | mixed farmer |
| **9421** | mixer - chemical processing |
| **9414** | mixer - concrete, clay and stone products |
| **9461** | mixer - tobacco processing |
| **9611** | mixer helper - primary metal and mineral products processing |
| **9421** | mixer helper, wallpaper colours |
| **9414** | mixer operator - concrete products |
| **9423** | mixer operator - rubber processing |
| **9423** | mixer operator - rubber products manufacturing |
| **9421** | mixer tender - chemical processing |
| **9619** | mixer tender, brush materials |
| **9421** | mixer, paints - chemical processing |

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| **9423** | mixing and grinding machine tender - rubber products manufacturing |
| **9211** | mixing and separating operations foreman/woman - primary metal and mineral products processing |
| **9214** | mixing foreman/woman - rubber and plastic manufacturing |
| **9432** | mixing operator - pulp and paper |
| **9211** | mixing plant foreman/woman - primary metal and mineral products processing |
| **9214** | mixing supervisor - rubber and plastic products manufacturing |
| **2174** | mobile applications developer |
| **5224** | mobile broadcasting equipment installer |
| **5224** | mobile broadcasting equipment operator |
| **7514** | mobile canteen driver |
| **7305** | mobile canteen service supervisor |
| **7514** | mobile caterer |
| **7511** | mobile cement mixer driver |
| **8241** | mobile chipper operator - logging |
| **7511** | mobile concrete mixer driver |
| **7371** | mobile crane apprentice operator |
| **7371** | mobile crane operator |
| **5231** | mobile disc jockey |
| **1525** | mobile equipment dispatcher |
| **7612** | mobile equipment repairer helper |
| **7312** | mobile farm equipment mechanic |
| **7312** | mobile farm machinery repairer |
| **9241** | mobile generator operator |
| **9226** | mobile home assembly foreman/woman |
| **9226** | mobile home assembly supervisor |
| **7441** | mobile home equipment servicer |
| **7441** | mobile home maintainer |
| **7441** | mobile home repairer |
| **6421** | mobile home salesperson - retail |
| **7441** | mobile home servicer |
| **7312** | mobile logging equipment mechanic |
| **7612** | mobile mechanic helper |
| **7312** | mobile mining equipment mechanic |
| **2274** | mobile platform chief engineer - offshore drilling |
| **5224** | mobile radio broadcasting supervisor |
| **7246** | mobile radio installer |
| **7246** | mobile radio installer - telecommunications |
| **7246** | mobile radio technician - telecommunications |
| **7246** | mobile radiotelephone installer |
| **9523** | mobile transceiver inspector - electronic equipment manufacturing |
| **8241** | mobile whole tree chipper - logging |
| **7452** | Mobilift operator |
| **9446** | moccasin sewer |
| **5232** | model |
| **7384** | model and mock-up maker |
| **7384** | model and mock-up maker - aeronautics |
| **7384** | model and mould maker - concrete products |
| **7384** | model maker |
| **7232** | model maker - tool and die |
| **7231** | model maker machinist |
| **5212** | model maker-preparator |
| **4216** | modelling and finishing school instructor |
| **9414** | modelling clay mixer and extruder |
| **0651** | modelling school manager |
| **5231** | moderator - broadcasting |
| **4154** | moderator - religion |
| **4021** | modern languages teacher - college level |
| **4031** | modern languages teacher - secondary school |
| **4021** | modern languages tutor - language school |
| **5245** | modifier and lay-out marker |
| **5245** | modifier and marker |
| **9533** | modular housing fabricator, wood |
| **9461** | module tender - tobacco processing |
| **3112** | MOH (medical officer of health) |
| **4217** | mohel |
| **9465** | moisture content tester - dairy products |
| **9465** | moisture content tester - tobacco processing |
| **9461** | molasses mixer - food and beverage processing |
| **9461** | molasses wort processor |
| **7521** | mole operator |
| **7611** | mole operator helper - construction |
| **2121** | molecular biologist |
| **2111** | molecular biophysicist |
| **2121** | molecular geneticist |
| **2121** | molecular physiologist |
| **9611** | molten metal mixer helper - primary metal processing |
| **9411** | molten metal mixer operator |
| **9415** | molten metal sampler - primary metal processing |
| **9411** | molybdenum flotation operator |
| **9411** | molybdenum leaching plant operator |
| **9231** | molybdenum roaster operator |
| **6611** | money counter |
| **1112** | money market analyst |
| **1113** | money market trader |
| **1525** | monitoring station operator |
| **4217** | monk |
| **9472** | monochrome plate film stripper |
| **7371** | monorail crane operator |
| **1423** | Monotype casting machine operator |
| **1423** | Monotype hot metal typesetter keyboard operator |
| **1423** | Monotype keyboard operator |
| **9414** | monument carver - stone products |
| **9414** | monument engraver - stone products |
| **7611** | monument erector |
| **9415** | monument inspector - mineral products processing |
| **9414** | monument letterer - stone products |
| **5136** | monument sculptor |
| **7611** | monument setter |
| **9414** | monument stonecutter - stone products |
| **9537** | mop assembler |

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| **9537** | mop maker |
| **4311** | morality officer - police |
| **3414** | morgue attendant |
| **3212** | morgue attendant supervisor |
| **3414** | morgue technician |
| **9414** | mortar mixer |
| **4313** | mortarman/woman |
| **0122** | mortgage and consumer credit manager |
| **1242** | mortgage and real estate legal assistant |
| **4211** | mortgage and real estate paralegal |
| **1114** | mortgage broker |
| **0121** | mortgage broker manager |
| **1434** | mortgage clerk |
| **6235** | mortgage consultant |
| **6235** | mortgage loans consultant |
| **6235** | mortgage loans officer |
| **0122** | mortgage manager |
| **6235** | mortgage officer |
| **1114** | mortgage underwriter |
| **6346** | mortician |
| **9437** | mortiser operator - woodworking |
| **9437** | mortising machine operator - woodworking |
| **7283** | mosaic tilesetter |
| **6731** | motel cleaner |
| **0632** | motel manager |
| **6313** | motel managing supervisor |
| **4217** | mother superior/religious superior |
| **5222** | motion picture camera operator |
| **5131** | motion picture director |
| **7231** | motion picture equipment machinist |
| **5227** | motion picture examiner |
| **5226** | motion picture facilities supervisor |
| **9474** | motion picture film developer |
| **9474** | motion picture film examiner - photographic processing |
| **9474** | motion picture film printer |
| **5132** | motion picture musical director |
| **5131** | motion picture producer |
| **5131** | motion picture production director |
| **5227** | motion picture projectionist |
| **9522** | motor and chassis inspector - motor vehicle manufacturing |
| **9525** | motor and control tester |
| **9524** | motor and generator assembler - electrical equipment manufacturing |
| **9525** | motor and generator assembler - industrial electrical equipment |
| **9525** | motor and generator assembler and wirer |
| **9525** | motor and generator inspector |
| **9536** | motor and generator subassemblies painter |
| **9525** | motor and transformer tester |
| **7334** | motor boat mechanic |
| **7533** | motor boat operator |
| **7512** | motor coach driver |
| **7333** | motor coil winder-repairer |
| **9525** | motor control assembler - industrial electrical equipment |
| **9226** | motor home assembly foreman/woman |
| **9522** | motor installer - motor vehicle manufacturing |
| **7533** | motor launch operator |
| **7321** | motor mechanic - motor vehicle manufacturing |
| **7322** | motor repair vehicle painter apprentice |
| **7321** | motor repairer - motor vehicle manufacturing |
| **7334** | motor scooter repairer |
| **7622** | motor transport labourer |
| **0731** | motor transport manager |
| **7305** | motor transport route foreman/woman |
| **2262** | motor transportation inspector |
| **2262** | motor transportation regulations officer |
| **6411** | motor vehicle and equipment sales representative - wholesale (non-technical) |
| **7322** | motor vehicle apprentice painter |
| **9522** | motor vehicle assembler |
| **9522** | motor vehicle assembler - motor vehicle manufacturing |
| **9221** | motor vehicle assembly co-ordinator |
| **9221** | motor vehicle assembly foreman/woman |
| **9221** | motor vehicle assembly general supervisor |
| **0911** | motor vehicle assembly plant manager |
| **9221** | motor vehicle assembly supervisor |
| **9221** | motor vehicle assembly zone supervisor |
| **6742** | motor vehicle attendant |
| **7322** | motor vehicle body finisher |
| **7322** | motor vehicle body repairer |
| **7322** | motor vehicle body repairer - collision |
| **7322** | motor vehicle body repairer - metal and paint |
| **7322** | motor vehicle body repairer - refinishing |
| **7322** | motor vehicle body repairer apprentice |
| **7612** | motor vehicle body repairer helper |
| **7301** | motor vehicle body repairers foreman/woman |
| **7322** | motor vehicle body repair-painter |
| **7322** | motor vehicle body technician |
| **7322** | motor vehicle body technician - truck |
| **1452** | motor vehicle bureau clerk |
| **1312** | motor vehicle claims adjuster - insurance |
| **9417** | motor vehicle cylinder grinder |
| **2262** | motor vehicle defects investigator |
| **7321** | motor vehicle diesel engine mechanic |
| **1525** | motor vehicle dispatcher |
| **7301** | motor vehicle engine repair foreman/woman |
| **7321** | motor vehicle fuel conversion technician |
| **7321** | motor vehicle fuel-systems and electric-systems mechanic |
| **9221** | motor vehicle inspection and testing foreman/woman - motor vehicle manufacturing |
| **2262** | motor vehicle inspector |
| **7232** | motor vehicle jig builder |
| **6742** | motor vehicle jockey |
| **6421** | motor vehicle leasing representative - retail |
| **9524** | motor vehicle lighting fixture assembler |

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|---|---|
| **9221** | motor vehicle manufacturing foreman/woman |
| **7321** | motor vehicle mechanic |
| **7612** | motor vehicle mechanic helper |
| **9522** | motor vehicle mechanical equipment inspector - motor vehicle manufacturing |
| **7321** | motor vehicle mechanical repairer |
| **7301** | motor vehicle mechanics and repairers foreman/woman |
| **7301** | motor vehicle mechanics foreman/woman |
| **7301** | motor vehicle mechanics supervisor |
| **7384** | motor vehicle model maker |
| **7531** | motor vehicle operator - pole yard |
| **9536** | motor vehicle painter - motor vehicle manufacturing |
| **7322** | motor vehicle painter - motor vehicle repair |
| **1522** | motor vehicle parts clerk |
| **1522** | motor vehicle parts clerk apprentice |
| **1522** | motor vehicle partsperson |
| **1523** | motor vehicle repair shop co-ordinator |
| **0621** | motor vehicle repair shop manager |
| **7301** | motor vehicle repair shop supervisor |
| **6421** | motor vehicle salesperson - retail |
| **7321** | motor vehicle technician |
| **7321** | motor vehicle transmission mechanic |
| **9525** | motor winder - industrial electrical equipment |
| **9531** | motorboat assembler |
| **9531** | motorboat assembly inspector |
| **7533** | motorboat captain |
| **7533** | motorboat operator |
| **9525** | motor-coil and generator-coil builder |
| **9525** | motor-coil and generator-coil installer - industrial electrical equipment |
| **4216** | motorcycle driving instructor |
| **7334** | motorcycle mechanic |
| **7334** | motorcycle mechanic apprentice |
| **7301** | motorcycle mechanics foreman/woman |
| **4311** | motorcycle patrolman/woman - police |
| **7334** | motorcycle repairer |
| **7334** | motorcycle repairman/woman |
| **6421** | motorcycle salesperson - retail |
| **8412** | motorhand - offshore drilling |
| **8412** | motorhand - oil and gas drilling |
| **7514** | motorized mail courier |
| **8411** | motorman/woman - mines |
| **7612** | motorman/woman - offshore drilling rig |
| **8412** | motorman/woman - oil and gas drilling |
| **8411** | motorman/woman - underground mining |
| **8221** | motormen/women and dinkeymen/women foreman/woman (except rail transport) |
| **7231** | mould and core machinist |
| **9412** | mould caster - foundry |
| **9612** | mould cleaner - foundry |
| **9615** | mould cleaner - rubber and plastic products manufacturing |
| **9615** | mould cleaner - rubber products manufacturing |
| **2132** | mould design engineer |
| **2232** | mould designer |
| **9612** | mould dresser - foundry |
| **9414** | mould filler - clay products |
| **9615** | mould filler - rubber and plastic products manufacturing |
| **9535** | mould filler-stripper - plastic manufacturing |
| **9535** | mould laminator - plastic manufacturing |
| **9423** | mould machine operator - rubber products manufacturing |
| **7232** | mould maker - plastics processing |
| **7232** | mould maker apprentice |
| **9615** | mould preparer - rubber and plastic products manufacturing |
| **9412** | mould setter - foundry |
| **9615** | mould setter - rubber and plastic products manufacturing |
| **7201** | mould shop foreman/woman - machining |
| **9611** | mould stripper - concrete products manufacturing |
| **9535** | mould stripper - plastic manufacturing |
| **9535** | mould waxer - plastic manufacturing |
| **9615** | mould waxer - rubber and plastic products manufacturing |
| **9214** | moulded footwear inspection supervisor - rubber and plastic products manufacturing |
| **9535** | moulded plastic finisher |
| **9535** | moulded plastic inspector |
| **9535** | moulded plastic inspector-tester |
| **9535** | moulded plastic products trimmer |
| **9535** | moulded products finisher - plastic products manufacturing |
| **9535** | moulded products stripper - plastic products manufacturing |
| **9615** | moulded products stripper - rubber and plastic products manufacturing |
| **9215** | moulded pulp products foreman/woman |
| **9214** | moulded rubber footwear foreman/woman |
| **9615** | moulded rubber products trimmer |
| **9421** | moulder - chemical processing |
| **9423** | moulder - rubber products manufacturing |
| **9437** | moulder - wood products manufacturing |
| **9437** | moulder - woodworking |
| **9421** | moulder and compressor, toiletries - chemical processing |
| **9611** | moulder helper - primary metal processing |
| **9422** | moulder operator - plastic manufacturing |
| **9437** | moulder operator - woodworking |
| **9412** | moulding and coremaking machine setter - foundry |
| **9412** | moulding and coremaking machine set-up man/woman - foundry |
| **9437** | moulding cutter - wood products manufacturing |
| **9211** | moulding foreman/woman - foundry |
| **9214** | moulding foreman/woman - rubber and plastic manufacturing |

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| 9615 | moulding machine offbearer - rubber products manufacturing |
| 9461 | moulding machine operator - food and beverage processing |
| 9437 | moulding machine operator - woodworking |
| 7284 | moulding plasterer |
| 9423 | moulding press tender - rubber products manufacturing |
| 9412 | moulding sand mixer - foundry |
| 9214 | moulding supervisor - rubber and plastic products manufacturing |
| 7232 | mouldmaker - aircraft |
| 9414 | mouldmaker - clay products |
| 7232 | mouldmaker, metal |
| 7231 | mouldmaking machinist |
| 9423 | mouldman/woman - rubber products manufacturing |
| 9523 | mount operator - electronic equipment manufacturing |
| 6532 | mountain climbing guide |
| 6532 | mountain guide |
| 6532 | mountaineering guide |
| 4311 | mounted police constable |
| 4311 | mounted policeman/woman |
| 9523 | mounter - electronic equipment manufacturing |
| 9537 | mounter, hollowware |
| 9619 | mounter, solid tires - toy manufacturing |
| 3144 | movement analyst - medical |
| 3144 | movement therapist |
| 7622 | mover helper |
| 5135 | movie actor |
| 5123 | movie critic |
| 5131 | movie director |
| 5131 | movie producer |
| 6316 | movie theatre attendants supervisor |
| 6611 | movie theatre cashier |
| 0651 | movie theatre manager |
| 5227 | movie theatre projectionist |
| 6742 | movie usher |
| 0731 | moving company manager |
| 7511 | moving truck driver |
| 7511 | moving van driver |
| 7305 | moving van drivers supervisor |
| 7622 | moving van helper |
| 7318 | moving walkway installer-repairer |
| 3215 | MRI (magnetic resonance imaging) technologist |
| 3236 | MT (massage therapist) |
| 8231 | mucker - underground mining |
| 7521 | mucker operator - construction |
| 8231 | mucking machine operator |
| 7521 | mucking machine operator - construction |
| 8231 | mucking machine operator - underground mining |
| 2145 | mud engineer |
| 2145 | mud engineer - petroleum drilling |
| 7611 | mud jack operator |
| 2212 | mud man/woman - petroleum drilling |
| 6332 | muffin baker |
| 6332 | muffin maker |
| 7535 | muffler installer |
| 0621 | muffler shop manager |
| 7311 | mule fixer - textile manufacturing |
| 7311 | mule setter - textile manufacturing |
| 4164 | multiculturalism project officer |
| 9434 | multidrum sander operator |
| 9537 | multifocal lens assembler |
| 9417 | multi-function metal-cutting tool operator |
| 9417 | multi-function metal-cutting tool operator trainee |
| 5113 | multimedia archivist |
| 5131 | multimedia audio producer |
| 5121 | multimedia author |
| 2171 | multimedia consultant |
| 0512 | multimedia department manager |
| 5241 | multimedia design specialist |
| 5241 | multimedia designer |
| 2174 | multimedia developer |
| 4161 | multimedia ergonomist |
| 5223 | multimedia graphic design technician |
| 5223 | multimedia graphics technician |
| 5241 | multimedia illustrator |
| 5123 | multimedia information trader |
| 5241 | multimedia instructional designer and scriptor |
| 5111 | multimedia librarian |
| 5221 | multimedia photographer |
| 5221 | multimedia picture illustrator |
| 5241 | multimedia products designer |
| 5241 | multimedia products designer-ideaman/woman |
| 2174 | multimedia programmer |
| 5121 | multimedia script writer |
| 5225 | multimedia sound technician |
| 5225 | multimedia sound-effects supervisor |
| 5121 | multimedia writer |
| 9446 | multineedle sewing machine operator |
| 9416 | multi-operation forming machine tender |
| 9422 | multiple extruder operator - plastic manufacturing |
| 9416 | multiple punch press operator - metal fabrication |
| 9417 | multiple-spindle drill press operator - metal machining |
| 9417 | multiple-spindle drill press set-up operator - metal machining |
| 9417 | multiple-spindle screw machine operator |
| 9417 | multiple-spindle vertical boring mill set-up operator |
| 9417 | multiple-spindle vertical turret lathe set-up operator |
| 9423 | multiroll calender operator - rubber products manufacturing |

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| **8222** | multi-service operator - oil field services |
| **0012** | municipal administrator |
| **1314** | municipal assessor |
| **0011** | municipal council chairman/woman |
| **0513** | municipal director of leisure |
| **0513** | municipal director of recreation |
| **2253** | municipal draftsperson |
| **7621** | municipal elemental worker |
| **2131** | municipal engineer |
| **2231** | municipal engineering assistant |
| **7621** | municipal general labourer |
| **7621** | municipal labourer |
| **4423** | municipal law enforcement officer |
| **4423** | municipal law enforcement officers supervisor |
| **0513** | municipal leisure director |
| **0513** | municipal leisure manager |
| **7522** | municipal maintenance equipment operator |
| **0513** | municipal manager of leisure |
| **0513** | municipal manager of recreation |
| **1411** | municipal office clerk |
| **2153** | municipal park planner |
| **2153** | municipal planner |
| **0513** | municipal recreation director |
| **0513** | municipal recreation manager |
| **4161** | municipal recycling program co-ordinator |
| **7522** | municipal servicer drain roto |
| **4112** | municipal solicitor |
| **1228** | municipal tax collector |
| **0412** | municipal taxation manager |
| **9537** | munitions assembler |
| **7452** | munitions handler |
| **9537** | munitions inspector |
| **9537** | munitions loading inspector |
| **9537** | munitions manufacturing inspector |
| **9537** | munitions salvage inspector |
| **9537** | munitions worker |
| **5136** | mural landscape artist |
| **5136** | mural painter |
| **5112** | museologist |
| **5212** | museology technician |
| **0511** | museum administrator |
| **0511** | museum assistant administrator |
| **0511** | museum assistant director |
| **5212** | museum cataloguer |
| **0511** | museum co-ordinator |
| **5112** | museum curator |
| **5243** | museum designer |
| **0511** | museum director |
| **0511** | museum director of conservation |
| **1123** | museum education officer |
| **1123** | museum educator |
| **0511** | museum executive director |
| **5243** | museum exhibit designer |
| **5212** | museum exhibit officer |
| **5212** | museum extension officer |
| **0511** | museum general director |
| **5212** | museum interpreter |
| **0511** | museum manager |
| **5212** | museum objects cataloguer |
| **5112** | museum objects conservator |
| **5212** | museum objects preparator |
| **5212** | museum preparator |
| **5212** | museum registrar |
| **5212** | museum technician |
| **5212** | museum technician - earth's history and paleontology |
| **8431** | mushroom farm worker |
| **0821** | mushroom grower |
| **8611** | mushroom picker |
| **0821** | mushroom producer |
| **0651** | music academy manager |
| **5132** | music adapter |
| **5132** | music arranger |
| **4166** | music co-ordinator - education |
| **5132** | music copyist |
| **5123** | music critic |
| **5132** | music director |
| **5225** | music editor - recording studio |
| **0014** | music guild president |
| **5111** | music librarian |
| **5111** | music librarian - broadcasting |
| **1451** | music library assistant |
| **5225** | music mixer |
| **5225** | music or sound mixer |
| **4011** | music professor - university |
| **5226** | music program planner |
| **5123** | music reviewer |
| **0651** | music school manager |
| **4021** | music teacher - conservatory of music |
| **4032** | music teacher - elementary school |
| **5133** | music teacher - musicians |
| **5133** | music teacher - private, conservatory or studio lessons |
| **4031** | music teacher - secondary school |
| **3144** | music therapist |
| **3144** | music therapists' supervisor |
| **3144** | music therapy researcher |
| **5132** | music writer |
| **5132** | musical director |
| **9537** | musical instrument assembler |
| **5244** | musical instrument maker - artisan |
| **9227** | musical instrument manufacturing foreman/woman |
| **7445** | musical instrument repairer |
| **7445** | musical instrument tester |
| **9416** | musical instrument tube bender |
| **7445** | musical instrument tuner |
| **6421** | musical instruments and supplies salesperson - retail |
| **5133** | musical interpreter |
| **5133** | musician |
| **1123** | musicians agent |
| **7511** | muskeg tractor operator |

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| 8442 | muskrat trapper |
| 8613 | mussel farm labourer |
| 0823 | mussel farmer |
| 0823 | mussel grower |
| 8613 | mussel harvester |
| 1112 | mutual fund analyst |
| 1113 | mutual fund broker |
| 1113 | mutual fund sales agent |
| 1113 | mutual fund sales representative |
| 0121 | mutual funds manager - financial brokerage |
| 2221 | mycological technician |
| 2221 | mycological technologist |
| 2121 | mycologist |
| 3236 | myotherapist |
| 6541 | mystery shopper |

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|---|---|
| 6562 | nail care technician |
| 9619 | nail cutter - shoe manufacturing |
| 9418 | nail maker |
| 9418 | nail making machine set-up operator |
| 9418 | nail making machine tender |
| 9537 | nailer - footwear manufacturing |
| 9437 | nailing machine operator - woodworking |
| 6562 | nails and lashes applicator |
| 9417 | name plate stamper |
| 5244 | nameplate engraver |
| 4411 | nanny |
| 2221 | nanobiotechnology technician |
| 2112 | nanochemist |
| 2111 | nanotechnology physicist |
| 9232 | naphthalene clarifier |
| 9441 | napper - textile manufacturing |
| 7311 | napper adjuster - textile manufacturing |
| 7311 | napper grinder - textile manufacturing |
| 9441 | napper operator - textile manufacturing |
| 9441 | napper tender - textile manufacturing |
| 9441 | naps teaseller - textile manufacturing |
| 4311 | narcotics squad detective |
| 5135 | narrator |
| 9447 | narrow fabric examiner |
| 0601 | national accounts manager - sales |
| 0601 | national sales manager |
| 5252 | national team coach |
| 4164 | Native affairs officer |
| 5244 | Native art carver |
| 1221 | Native band administrator |
| 4212 | Native centre co-ordinator |
| 0423 | Native centre manager |
| 4212 | Native community worker |
| 5244 | Native craftwork instructor |
| 4164 | Native employment program officer |
| 4164 | Native issues lobbyist |
| 4168 | Native land claims liaison officer |
| 4212 | Native outreach officer - social services |
| 4212 | Native outreach worker |
| 1221 | Native reserve administrator |
| 4031 | Native school community teacher - secondary school |
| 0422 | Native school principal |
| 4161 | natural and applied sciences consultant |
| 4161 | natural and applied sciences policy advisor |
| 4161 | natural and applied sciences policy analyst |
| 4161 | natural and applied sciences program officer |
| 4161 | natural and applied sciences researcher |
| 9232 | natural gas compressor operator |
| 2145 | natural gas engineer |
| 9212 | natural gas plant foreman/woman |
| 6221 | natural gas sales representative |
| 5212 | natural habitat interpreter |
| 5112 | natural history museum curator |
| 5112 | natural history specimen conservator |
| 4162 | natural resources economist |
| 2224 | natural resources officer |
| 4161 | natural resources planner |
| 4161 | natural resources policy analyst |
| 0412 | natural resources policy director - government services |
| 2221 | natural resources technician - biology |
| 2223 | natural resources technician - forestry |
| 5112 | natural sciences curator |
| 5112 | natural sciences museum curator |
| 4011 | natural sciences professor - university |
| 0212 | natural sciences program manager |
| 2121 | naturalist |
| 5212 | nature interpreter |
| 5212 | nature site interpreter |
| 4032 | nature study teacher - elementary school |
| 3125 | naturopath |
| 3125 | naturopathic doctor (ND) |
| 3125 | naturopathic physician |
| 3232 | naturopathic practionner |
| 4167 | nautical activities co-ordinator |
| 9523 | nautical instrument maker - electronic equipment manufacturing |
| 4167 | nautical programs co-ordinator |
| 4313 | naval acoustics operator |
| 2148 | naval architect |
| 0433 | naval cadet |
| 4313 | naval electronics technician - armed forces |
| 2148 | naval engineer |
| 9523 | navigation aid inspector - electronic equipment manufacturing |
| 2131 | navigation and positioning engineer |
| 2273 | navigation officer - water transport |
| 2271 | navigator - air transport |
| 9417 | NC (numerical control) drilling machine operator - metal machining |
| 2233 | NC (numerical control) programmer |
| 9418 | NC (numerical control) riveting machine operator - metal products manufacturing |

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| 9417 | NC (numerically controlled) machine operator - metal machining |
| 9417 | NC (numerically controlled) machine tool operator |
| 9417 | NC (numerically controlled) machine tool set-up operator |
| 9417 | NC (numerically controlled) machining tool operator |
| 7231 | NC (numerically controlled) machinist |
| 9418 | NC (numerically controlled) riveting machine operator - metal products manufacturing |
| 9417 | NC (numerically controlled) tracer operator - metal machining |
| 9417 | NC/CNC (numerical control/computer numerical control) machining tool operator |
| 3125 | ND (naturopathic doctor) |
| 2261 | NDT (non-destructive testing) maintenance technician |
| 9617 | neck skewerer - food and beverage processing |
| 9537 | necklace assembler |
| 7311 | needle bed repairer - textile manufacturing |
| 7311 | needle board repairer - textile manufacturing |
| 9442 | needle loom operator |
| 9442 | needle loom weaver |
| 9474 | negative cutter - film processing |
| 9472 | negative merger |
| 9474 | negative restorer - photographic processing |
| 9474 | negative retoucher |
| 9474 | negative spotter - film processing |
| 9472 | negative spotter - printing |
| 9474 | negative-contact-frame operator |
| 2153 | neighbourhood planner |
| 4212 | neighbourhood worker - social services |
| 2121 | nematologist |
| 9524 | neon sign builder - electrical equipment manufacturing |
| 7441 | neon sign erector |
| 7441 | neon sign installer |
| 9524 | neon sign maker |
| 9413 | neon sign pumper |
| 7445 | neon sign repairer |
| 9413 | neon sign tube bender |
| 9413 | neon tube bender |
| 9413 | neon tube pumper |
| 3111 | neonatologist |
| 9422 | neoprene sprayer operator - plastic manufacturing |
| 3111 | nephrologist |
| 3012 | nephrology and kidney transplantation nurse |
| 3012 | nephrology and renal transplantation nurse |
| 3012 | nephrology nurse |
| 3111 | nerve specialist |
| 9535 | net applicator - plastic products manufacturing |
| 9442 | net maker, machine - textiles |
| 7445 | net mender |
| 7445 | net repairer |
| 9442 | net weaver - textiles |
| 9442 | net-knitting machine operator - textiles |
| 5123 | netsurfer |
| 9442 | netting-making machine operator - textiles |
| 2281 | network administrator |
| 2147 | network architect - computer systems |
| 2147 | network capacity planner |
| 0131 | network conduct centre assistant manager |
| 2281 | network controller |
| 0213 | network design manager |
| 2147 | network designer - computer systems |
| 2147 | network engineer - communication hardware |
| 0131 | network installation manager - telecommunications |
| 0131 | network operations manager - telecommunications |
| 2281 | network operator |
| 5123 | network reporter |
| 0131 | network services manager - telecommunications |
| 2147 | network specialist - computer systems |
| 2281 | network support analyst |
| 2281 | network support technician |
| 2147 | network systems engineer |
| 2147 | network test engineer |
| 0131 | network traffic manager - telecommunications |
| 0131 | networks manager - telecommunications |
| 3217 | neuroelectrophysiology technologist |
| 3111 | neurological surgeon |
| 3111 | neurologist |
| 3111 | neuropathologist |
| 3413 | neuropsychiatric aide |
| 3111 | neuropsychiatrist |
| 4151 | neuropsychologist |
| 3012 | neuroscience nurse |
| 3111 | neurosurgeon |
| 9421 | neutralizer |
| 9441 | neutralizer - textile manufacturing |
| 9617 | neutralizer, corn starch |
| 7321 | new car mechanic |
| 6232 | new home salesperson |
| 5241 | new media graphics designer |
| 5121 | new media writer |
| 9522 | new passenger car inspector |
| 9522 | new passenger car preparer - motor vehicle manufacturing |
| 3234 | newborn emergency medical care technician |
| 3234 | newborn medical care technician |
| 5123 | news analyst |
| 5123 | news analyst - broadcasting |
| 5222 | news camera operator |
| 5123 | news commentator |
| 5123 | news commentator - broadcasting |
| 5123 | news correspondent |
| 0512 | news department manager |

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| 5122 | news desk editor |
| 5122 | news editor |
| 5122 | news editor - broadcasting |
| 1513 | news item delivery person - courier service |
| 5221 | news photographer |
| 5231 | news reader |
| 5123 | news reporter |
| 5122 | news service editor |
| 5123 | news writer - international broadcasting |
| 5123 | newscast correspondent |
| 5231 | newscaster |
| 1513 | newspaper carrier |
| 1513 | newspaper carrier - courier service |
| 1513 | newspaper carrier and vendor |
| 1452 | newspaper circulation clerk |
| 5123 | newspaper correspondent |
| 5123 | newspaper critic |
| 1513 | newspaper deliverer |
| 7514 | newspaper delivery driver |
| 6211 | newspaper delivery persons supervisor |
| 1525 | newspaper dispatcher |
| 1513 | newspaper distributor - courier service |
| 5122 | newspaper editor |
| 5123 | newspaper editorial writer |
| 5241 | newspaper illustrator |
| 0512 | newspaper manager |
| 0512 | newspaper managing editor |
| 1423 | newspaper page assembler |
| 7381 | newspaper press operator |
| 7381 | newspaper pressman/woman |
| 5123 | newspaper reporter |
| 6211 | newspaper sales supervisor |
| 6211 | newspaper salesperson supervisor |
| 6623 | newspaper vendor |
| 6623 | newspaper vendor - street sales |
| 5123 | newspaper writer |
| 6421 | newsstand clerk |
| 0423 | NGO (non-governmental organization) manager |
| 9612 | nib finisher - metal products manufacturing |
| 9537 | nibbling machine operator - jewellery manufacturing |
| 9416 | nibbling machine operator - metal fabrication |
| 9536 | nickel plater |
| 6525 | night auditor - hotel |
| 6525 | night clerk |
| 6525 | night clerk - hotel |
| 6313 | night clerk supervisor - hotel |
| 6211 | night crew leader - retail store |
| 6541 | night guard |
| 6313 | night supervisor - hotel |
| 6541 | night watchman/woman |
| 8411 | nipper - underground mining |
| 9232 | nitric acid oxidation plant operator |
| 9421 | nitrocellulose dryer tender |
| 9421 | nitrocellulose finisher |
| 9232 | nitrocellulose maker |
| 9421 | nitrocellulose screener and weigher |
| 8412 | nitrogen operator |
| 8412 | nitrogen operator - oil field services |
| 8412 | nitrogen truck operator - oil field services |
| 9232 | nitroglycerine maker |
| 9421 | nitroglycerine neutralizer |
| 9232 | nitroglycerine nitrator operator |
| 9232 | nitroglycerine separator |
| 9232 | nitroglycerine separator operator |
| 2211 | NMR (nuclear magnetic resonance) chemical technician |
| 2112 | NMR (nuclear magnetic resonance) spectroscopist |
| 3215 | NMRI (nuclear magnetic resonance imaging) technologist |
| 2131 | noise abatement engineer |
| 2231 | noise abatement technician |
| 2231 | noise reduction technician |
| 2261 | non-destructive examination technician |
| 2261 | non-destructive examiner |
| 2261 | non-destructive inspection technician |
| 2261 | non-destructive inspection tester |
| 2261 | non-destructive inspector |
| 2261 | non-destructive test technician |
| 2261 | non-destructive tester |
| 2261 | non-destructive testing maintenance (NDT) technician |
| 2261 | non-destructive testing trainee |
| 0014 | non-governmental organization (NGO) executive director |
| 0423 | non-governmental organization (NGO) manager |
| 3217 | non-registered electrocardiography technician |
| 1221 | non-technical project manager |
| 6411 | non-technical sales specialist - wholesale |
| 9617 | noodle paste mixer tender |
| 3111 | nose specialist |
| 4112 | notary (Quebec) |
| 4211 | notary public |
| 4211 | notary public (British Columbia) |
| 4211 | notary public (outside Quebec) |
| 4211 | notary public clerk |
| 9437 | notcher operator - woodworking |
| 9437 | notching saw operator - woodworking |
| 5121 | novelist |
| 5243 | novelties stylist |
| 6411 | novelty products salesperson - wholesale |
| 6411 | novelty sales representative - wholesale |
| 4217 | novice - religion |
| 7611 | nozzle worker - pile driving |
| 2112 | nuclear chemist |
| 2132 | nuclear design engineer |
| 2132 | nuclear engineer |
| 2232 | nuclear engineering technician |
| 2232 | nuclear engineering technologist |
| 9231 | nuclear fuel processor |

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|---|---|
| **2243** | nuclear generating station and heavy water plant control technician |
| **9241** | nuclear generating station field operator |
| **7311** | nuclear generating station mechanical maintainer |
| **9241** | nuclear generating station operator |
| **2211** | nuclear magnetic resonance (NMR) chemical technician |
| **2112** | nuclear magnetic resonance (NMR) spectroscopist |
| **3215** | nuclear magnetic resonance imaging (NMRI) technologist |
| **3215** | nuclear medicine chief technologist |
| **3215** | nuclear medicine clinical co-ordinator |
| **3215** | nuclear medicine clinical instructor |
| **3111** | nuclear medicine physician |
| **3111** | nuclear medicine specialist |
| **3215** | nuclear medicine supervisor |
| **3215** | nuclear medicine technical co-ordinator |
| **3215** | nuclear medicine technical director |
| **3215** | nuclear medicine technician |
| **3215** | nuclear medicine technologist |
| **3215** | nuclear medicine technologists supervisor |
| **2132** | nuclear operations engineer |
| **3111** | nuclear physician |
| **2111** | nuclear physicist |
| **7311** | nuclear power station equipment mechanic |
| **7311** | nuclear power station machinery mechanic |
| **9241** | nuclear reactor control room operator - electrical power systems |
| **9241** | nuclear reactor operator |
| **9241** | nuclear reactor operator - electrical power systems |
| **2111** | nuclear reactor physicist |
| **9241** | nuclear station control room operator |
| **2232** | nuclear technologist |
| **0912** | nuclear waste manager |
| **2243** | nucleonic controller repairer |
| **9523** | nucleonics instrument assembler |
| **5232** | nude dancer |
| **7444** | nuisance control trapper |
| **9473** | numbering machine operator - printing |
| **9417** | numerical control (NC) machining tool operator |
| **9417** | numerically controlled (NC) machine operator - metal machining |
| **9417** | numerically controlled (NC) machine tool set-up operator |
| **2233** | numerically controlled machine tool programmer (except operators) |
| **2233** | numerically controlled tool programmer |
| **6564** | numerologist |
| **0621** | numismatist |
| **4217** | nun |
| **3012** | nurse |
| **3012** | nurse - birthing room |
| **3011** | nurse - team leader |
| **3413** | nurse aide |
| **3012** | nurse consultant |
| **3012** | nurse counsellor |
| **3124** | nurse practioner - adult care |
| **3124** | nurse practitioner |
| **3124** | nurse practitioner - anesthesia |
| **3124** | nurse practitioner - cardiology |
| **3124** | nurse practitioner - extended class |
| **3124** | nurse practitioner - pediatrics |
| **3124** | nurse practitioner - primary health care |
| **3012** | nurse researcher |
| **3012** | nurse technician |
| **3124** | nurse-midwife |
| **3413** | nursery aide - hospital |
| **8255** | nursery foreman/woman |
| **0822** | nursery manager |
| **0822** | nursery operator |
| **4214** | nursery school aide |
| **4214** | nursery school helper |
| **4214** | nursery school teacher |
| **8255** | nursery supervisor |
| **2223** | nursery technician - forestry |
| **8432** | nursery worker |
| **8255** | nursery worker crew chief |
| **8255** | nursery worker foreman/woman |
| **8255** | nursery workers supervisor |
| **0822** | nurseryman/woman |
| **0014** | nurse's association executive director |
| **3012** | nursing adviser |
| **3413** | nursing assistant (non-registered) |
| **3233** | nursing assistant (registered - Québec) |
| **3413** | nursing attendant |
| **3011** | nursing care co-ordinator |
| **0311** | nursing care manager - medical services |
| **3012** | nursing consultant |
| **3011** | nursing co-ordinator |
| **3012** | nursing counsellor |
| **4021** | nursing educator (except college) |
| **3012** | nursing evaluator |
| **3413** | nursing home attendant |
| **6731** | nursing home cleaner |
| **4165** | nursing home guidelines development officer |
| **2263** | nursing home inspector |
| **0632** | nursing home manager |
| **4165** | nursing home policy development officer |
| **4021** | nursing instructor - college |
| **3413** | nursing orderly |
| **4011** | nursing professor - university |
| **0125** | nursing registry manager |
| **1211** | nursing registry supervisor |
| **3012** | nursing researcher |
| **3012** | nursing researcher - nurse |
| **0311** | nursing services administrator |
| **3413** | nursing services aide |
| **0311** | nursing services assistant administrator |
| **3011** | nursing services co-ordinator |
| **0311** | nursing services director - medical services |

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|---|---|
| **0311** | nursing services manager - medical services |
| **3011** | nursing supervisor |
| **3012** | nursing technician |
| **0311** | nursing unit administrator |
| **3011** | nursing unit co-ordinator |
| **3011** | nursing unit supervisor |
| **0014** | nursing vice-president - health, education, social and community services and membership organizations |
| **3011** | nursing ward supervisor |
| **9612** | nut and bolt assembler - metal products manufacturing |
| **9418** | nut and bolt machine tender |
| **9612** | nut and bolt packer - metal products manufacturing |
| **9418** | nut disk cutter |
| **9461** | nut mixer operator |
| **9617** | nut sorter - food and beverage processing |
| **9617** | nut-chopping machine feeder |
| **3132** | nutrition and dietetics researcher |
| **3132** | nutrition consultant |
| **3132** | nutrition researcher |
| **3132** | nutrition specialist |
| **2112** | nutritional chemist |
| **3132** | nutritionist |
| **9461** | nut-roasting equipment operator |

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|---|---|
| **9437** | oar maker - woodworking |
| **9437** | oar shaper - woodworking |
| **9461** | oats miller |
| **8615** | observer helper - gravity prospecting |
| **8615** | observer helper - seismic prospecting |
| **3011** | obstetrical nursing supervisor |
| **3111** | obstetrician |
| **3111** | obstetrician-gynecologist |
| **3012** | obstetrics nurse |
| **3223** | occlusion rim former - dentures |
| **1121** | occupational analyst - human resources |
| **1122** | occupational analyst - services to management firms |
| **2263** | occupational health and safety consultant (OHS) |
| **2263** | occupational health and safety inspector |
| **0112** | occupational health and safety manager |
| **2263** | occupational health and safety officer |
| **2263** | occupational health inspector |
| **3012** | occupational health nurse |
| **3012** | occupational health nurse consultant |
| **2263** | occupational health officer |
| **3111** | occupational health physician (OHP) |
| **0311** | occupational health services director |
| **2263** | occupational health supervisor |
| **2263** | occupational hygiene inspector |
| **4161** | occupational hygiene officer |
| **2263** | occupational hygiene technician |
| **4161** | occupational hygienist |
| **2263** | occupational hygienist technologist |
| **3012** | occupational medicine nurse |
| **3111** | occupational medicine specialist |
| **3111** | occupational physician |
| **2263** | occupational safety inspector |
| **2263** | occupational safety officer |
| **4164** | occupational supply analyst |
| **3143** | occupational therapist (OT) |
| **3237** | occupational therapist assistant |
| **3143** | occupational therapist vocational evaluator |
| **3414** | occupational therapy aide |
| **3237** | occupational therapy assistant |
| **3414** | occupational therapy helper |
| **3143** | occupational therapy rehabilitation consultant |
| **3237** | occupational therapy technician |
| **0411** | occupational training director - government services |
| **0112** | occupational training director - human resources |
| **6411** | ocean and lake container transportation sales representative |
| **2131** | ocean engineer |
| **1215** | ocean freight co-ordinator |
| **0731** | ocean freight manager |
| **1215** | ocean freight technician |
| **2113** | oceanographer |
| **2112** | oceanographic chemist |
| **0212** | oceanographic research director |
| **4011** | oceanography professor - university |
| **3219** | ocular prosthetist |
| **3219** | ocularist |
| **3219** | ocularist apprentice |
| **3219** | ocularist technician |
| **3111** | oculist |
| **3121** | OD (doctor of optometry) |
| **9421** | odorization technician - chemical processing |
| **0911** | oenologist |
| **9619** | offbearer - printing |
| **1411** | office administration clerk |
| **1241** | office administrative assistant |
| **1221** | office administrative technician |
| **1221** | office administrator |
| **1411** | office assistant |
| **1228** | office auditor - taxation |
| **1221** | office automation administrator |
| **1221** | office automation co-ordinator |
| **6731** | office building cleaner |
| **6733** | office building concierge |
| **6611** | office cashier |
| **9532** | office chair assembler |
| **6731** | office cleaner |
| **1411** | office clerk |
| **1211** | office clerks supervisor |
| **1221** | office co-ordinator |

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|---|---|
| **0113** | office equipment purchasing manager |
| **1225** | office equipment purchasing officer |
| **6411** | office equipment sales representative - wholesale (non-technical) |
| **6421** | office equipment salesperson - retail |
| **6221** | office equipment salesperson - wholesale |
| **2242** | office equipment service technician |
| **7441** | office furniture installer |
| **6411** | office furniture sales representative - wholesale |
| **1411** | office machine operator |
| **1211** | office machine operators supervisor |
| **2242** | office machine repairer |
| **7301** | office machine repairers foreman/woman |
| **1221** | office manager |
| **0114** | office manager - non-profit organization |
| **1513** | office messenger |
| **3012** | office nurse |
| **0411** | office of health promotion chief - government services |
| **4168** | Office of the Speaker of the House of Commons officer |
| **4168** | office of the Speaker officer |
| **1414** | office reception clerk |
| **1414** | office receptionist |
| **1221** | office services co-ordinator |
| **1211** | office services supervisor |
| **5242** | office space planner |
| **1211** | office supervisor |
| **0621** | office supplies store manager |
| **0433** | officer cadet |
| **2263** | officer, safety and health |
| **0112** | official languages chief |
| **4168** | official languages commission officer |
| **1221** | official languages co-ordinator |
| **4166** | official languages education officer |
| **0112** | official languages manager |
| **4168** | official languages promotion officer |
| **4154** | officiating clergyman/woman |
| **9471** | offline-printing machine operator |
| **7381** | offset lithographic proof press operator - printing |
| **7303** | offset lithography foreman/woman - printing |
| **7381** | offset machine operator |
| **9472** | offset plate preparer |
| **9472** | offset platemaker |
| **7303** | offset press foreman/woman - printing |
| **7381** | offset press operator |
| **7381** | offset press operator - printing |
| **7303** | offset press operators foreman/woman - printing |
| **7381** | offset pressman/woman - printing |
| **7381** | offset printer |
| **9472** | offset printing plate preparer |
| **7384** | offshore diver |
| **8232** | offshore driller - oil and gas |
| **2145** | offshore drilling engineer |
| **2273** | offshore drilling rig first mate |
| **2274** | offshore drilling rig marine engineer officer |
| **2145** | offshore drilling rig subsea equipment engineer |
| **8222** | offshore drilling rig superintendent |
| **8261** | offshore fishing vessel captain |
| **2273** | offshore rig captain |
| **2273** | offshore rig commanding officer |
| **8441** | offshore trawler deckhand |
| **3111** | OHP (occupational health physician) |
| **8222** | oil and gas contractor |
| **2145** | oil and gas drilling engineer |
| **8222** | oil and gas drilling foreman/woman |
| **0811** | oil and gas drilling superintendent |
| **0811** | oil and gas fields production manager |
| **2145** | oil and gas production engineer |
| **4211** | oil and gas property paralegal |
| **4211** | oil and gas rights law clerk |
| **1242** | oil and gas rights legal assistant |
| **4211** | oil and gas rights paralegal |
| **8222** | oil and natural gas well servicing foreman/woman |
| **7331** | oil and solid fuel heating mechanic |
| **9232** | oil blender |
| **7331** | oil burner apprentice |
| **7301** | oil burner installation foreman/woman |
| **7331** | oil burner installer |
| **7331** | oil burner installer and repairer |
| **7611** | oil burner installer helper |
| **7331** | oil burner maintainer |
| **7612** | oil burner maintainer helper |
| **7331** | oil burner mechanic |
| **7331** | oil burner mechanic apprentice |
| **7612** | oil burner mechanic helper |
| **7301** | oil burner mechanics foreman/woman |
| **7331** | oil burner repairer |
| **7331** | oil burner servicer |
| **7331** | oil burner technician |
| **7612** | oil burner technician helper |
| **7535** | oil changer - motor vehicle service |
| **9461** | oil clarifier tender - food and beverage processing |
| **9232** | oil controller |
| **9232** | oil dispatcher |
| **6411** | oil distributor |
| **7311** | oil drill rig mechanic |
| **7302** | oil field construction foreman/woman |
| **7302** | oil field construction supervisor |
| **8222** | oil field consultant |
| **8222** | oil field consultant - construction and reclamation |
| **8222** | oil field consultant - rig moving |
| **8222** | oil field consultant - well completions |
| **8222** | oil field consultant - well servicing |
| **8222** | oil field consultant - well testing |
| **8222** | oil field consultant supervisor |
| **8222** | oil field contractor |

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|---|---|
| 8615 | oil field labourer |
| 9232 | oil field production operator |
| 9232 | oil field pumper |
| 9537 | oil filter assembler |
| 7331 | oil furnace installer |
| 9232 | oil gauger |
| 2113 | oil geologist |
| 2212 | oil geology technologist |
| 1315 | oil lease broker |
| 9232 | oil movement controller |
| 9232 | oil movement coordinator |
| 5136 | oil painter |
| 9232 | oil pipeline operator |
| 7311 | oil pump station mechanic |
| 9619 | oil reclaimer |
| 9232 | oil refiner |
| 6221 | oil refinery equipment sales representative |
| 9232 | oil refinery process operator |
| 7311 | oil tool maintenance mechanic |
| 7311 | oil tool repairer |
| 7511 | oil transport driver |
| 8412 | oil well acidizer |
| 8412 | oil well cementer - oil field services |
| 8615 | oil well cementer helper |
| 0811 | oil well drilling manager |
| 2132 | oil well equipment design engineer |
| 2145 | oil well logging engineer |
| 8232 | oil well perforator |
| 1525 | oil well service dispatcher |
| 8222 | oil well services field supervisor |
| 6221 | oil well services sales engineer |
| 0811 | oil well servicing manager |
| 7311 | oil-drilling rig maintainer |
| 7311 | oil-drilling rig mechanic |
| 7535 | oiler - automotive service |
| 8431 | oilseed crop worker |
| 1221 | ombudsman officer |
| 0012 | ombudsperson - government services |
| 1451 | on call library assistant |
| 3012 | on-call nurse |
| 3111 | oncologist |
| 3012 | oncology nurse |
| 3215 | oncology technologist |
| 3215 | oncology technologist - radiation therapy |
| 5123 | on-line chronicler |
| 5123 | on-line columnist |
| 0124 | online marketing manager |
| 5121 | on-line reference developer |
| 8221 | open pit mine supervisor |
| 9441 | open-end spinner - textile manufacturing |
| 7311 | open-end technician |
| 7311 | open-end technician - textile manufacturing |
| 9441 | opener tender - textiles |
| 9231 | open-flame furnace operator - primary metal processing |
| 9441 | opening and blending operator |
| 9615 | opening machine feeder - rubber products manufacturing |
| 7372 | open-pit blaster |
| 7372 | open-pit driller |
| 0512 | opera company director |
| 5133 | opera singer |
| 9241 | operating engineer - power plant |
| 1221 | operating officer - administration |
| 3012 | operating room (OR) nurse |
| 3413 | operating room aide |
| 3011 | operating room nursing supervisor |
| 3233 | operating room technician |
| 3233 | operating room technician - nursing |
| 2174 | operating systems programmer |
| 9215 | operating team supervisor - pulp and paper |
| 9232 | operating technician - chemical processing |
| 2114 | operational meteorologist |
| 1221 | operational officer - administration |
| 0114 | operational planning director |
| 0131 | operations and transmission services manager - telecommunications |
| 0114 | operations chief |
| 0114 | operations director - administrative services |
| 2122 | operations forester |
| 1122 | operations management senior consultant |
| 0114 | operations manager - administrative services |
| 0122 | operations manager - banking, credit and investment |
| 0512 | operations manager - broadcasting |
| 0911 | operations manager - manufacturing |
| 0911 | operations manager - public utilities |
| 0512 | operations manager - publishing |
| 0131 | operations manager - telecommunications |
| 0015 | operations manager - trade, broadcasting and other services |
| 1221 | operations officer - administration |
| 2161 | operations research analyst |
| 2233 | operations research technologist |
| 2161 | operations researcher |
| 1211 | operations supervisor |
| 9232 | operations technician - chemical processing |
| 0016 | operations vice-president - electric power company |
| 0013 | operations vice-president - financial, communications and other business services |
| 0016 | operations vice-president - goods production, utilities, transportation and construction |
| 0014 | operations vice-president - health, education, social and community services and membership organizations |
| 0015 | operations vice-president - radio broadcasting services |
| 0013 | operations vice-president - satellite communication services |
| 0015 | operations vice-president - trade, broadcasting and other services |

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|---|---|
| **9527** | operator - electrical equipment manufacturing |
| **1414** | operator - telephone system |
| **9437** | operator, belt sander - woodworking |
| **9421** | operator, chemical plant |
| **9421** | operator, chemical processing machine |
| **9418** | operator, insulation machine - metal products manufacturing |
| **9418** | operator, metal pipe cutting machine |
| **9421** | operator, mixer - chemical processing |
| **5225** | operator, P.A. (public address) systems |
| **9421** | operator, packaging machine - chemical processing |
| **9423** | operator, rubber-cutting machine |
| **9418** | operator, spiral weaving machine - metal products manufacturing |
| **9421** | operator, sulphonator - chemical processing |
| **9421** | operator, tital liquor plant |
| **5224** | operator, transmission control studio |
| **5224** | operator, video transmission control studio |
| **9421** | operator, wash-house and recovery equipment - chemical processing |
| **3237** | ophthalmic assistant |
| **3231** | ophthalmic device dispenser |
| **3231** | ophthalmic dispenser |
| **3414** | ophthalmic goods antireflection (AR) coating technician |
| **3414** | ophthalmic goods bench worker |
| **3414** | ophthalmic goods lens coating technician |
| **3414** | ophthalmic goods lens cutter |
| **3414** | ophthalmic goods lens tinter |
| **3414** | ophthalmic lab technician - retail |
| **3414** | ophthalmic laboratory technician - retail |
| **3414** | ophthalmic lens bench worker |
| **3414** | ophthalmic lens cutter |
| **3414** | ophthalmic lens edge grinder |
| **3414** | ophthalmic lens grinder |
| **3414** | ophthalmic lens grinder and polisher |
| **3414** | ophthalmic lens grinder-polisher setter |
| **3414** | ophthalmic lens inspector |
| **3414** | ophthalmic lens marker |
| **3237** | ophthalmic medical assistant |
| **3237** | ophthalmic medical technician |
| **3237** | ophthalmic medical technologist |
| **3237** | ophthalmic technician |
| **3237** | ophthalmic technician (except retail) |
| **3237** | ophthalmic technologist |
| **3111** | ophthalmologist |
| **3237** | ophthalmologist assistant |
| **2161** | opinion polling statistician |
| **0011** | opposition leader |
| **3414** | optical and ophthalmic goods lens picker |
| **2147** | optical communications engineer |
| **2147** | optical communications hardware engineer |
| **3231** | optical device dispenser |
| **3231** | optical dispensing manager |
| **2253** | optical draftsperson |
| **5226** | optical effects co-ordinator |
| **9619** | optical element cleaner |
| **9537** | optical element coater - non-prescription |
| **3231** | optical frame fitter |
| **9537** | optical glass etcher (non-prescription) |
| **3414** | optical goods inspector |
| **9537** | optical instrument assembler |
| **9227** | optical instrument assembly foreman/woman |
| **9537** | optical instrument calibrator |
| **9537** | optical instrument driller - non-prescription |
| **9537** | optical instrument maker |
| **9227** | optical instrument manufacturing foreman/woman |
| **3414** | optical lab mechanic - retail |
| **3414** | optical laboratory assistant |
| **3414** | optical laboratory technician |
| **3414** | optical laboratory technician - retail |
| **3414** | optical lens grinder and polisher |
| **3414** | optical lens inspector |
| **3414** | optical mechanic |
| **9537** | optical mirror coater operator |
| **2112** | optical spectroscopist |
| **2147** | optical systems engineer - telecommunications |
| **3414** | optical technician |
| **3231** | optician |
| **7303** | OptiCopy and stripping foreman/woman - printing |
| **9472** | opticopy keypunch operator - printing |
| **9472** | opticopy machine operator - printing |
| **9472** | opticopy offline programmer - printing |
| **9472** | opticopy program tape preparer - printing |
| **2111** | optics physicist |
| **2241** | optics technologist |
| **1113** | options trader |
| **3414** | optometric assistant |
| **3231** | optometric dispenser |
| **3414** | optometric technician |
| **3121** | optometrist |
| **3414** | optometrist assistant |
| **3012** | OR (operating room) nurse |
| **3113** | oral and dental surgeon |
| **3113** | oral and maxillofacial surgeon |
| **5125** | oral interpreter |
| **3113** | oral medicine specialist |
| **3113** | oral pathologist |
| **3113** | oral pathology and maxillofacial surgery specialist |
| **3113** | oral radiologist |
| **3113** | oral surgeon |
| **0011** | orator - government |
| **8252** | orchard foreman/woman |
| **8431** | orchard worker |
| **5132** | orchestra artistic director |
| **5132** | orchestral conductor |
| **5132** | orchestrator |
| **5132** | orchestrator-arranger |

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| **6552** | order clerk - customer services |
| **6552** | order desk agent |
| **6622** | order filler - retail |
| **6622** | order picker |
| **1411** | order transcriber |
| **3413** | orderly |
| **4313** | ordinary seaman - armed forces |
| **7532** | ordinary seaman/woman (except armed forces) |
| **1225** | ore buyer |
| **9611** | ore crushing helper |
| **9411** | ore crushing worker |
| **9411** | ore dryer operator |
| **9411** | ore grinding worker |
| **8411** | ore handling operator - underground mining |
| **9211** | ore milling foreman/woman |
| **9211** | ore milling supervisor |
| **9411** | ore milling worker |
| **9611** | ore processing labourer |
| **9231** | ore roaster |
| **9415** | ore sample tester - mineral products processing |
| **9415** | ore sampler - mineral products processing |
| **9411** | ore screen tender |
| **9411** | ore screener |
| **9411** | ore separator tender - primary metal and mineral products processing |
| **2212** | ore technologist |
| **8411** | orepass tender - underground mining |
| **7311** | ore-processing equipment mechanic |
| **7612** | ore-processing equipment repairer helper |
| **5133** | organ teacher - private, conservatory or studio lessons |
| **7445** | organ tuner |
| **2112** | organic chemist |
| **8431** | organic farm worker |
| **0821** | organic grower |
| **2112** | organic mass spectrometrist |
| **5133** | organist |
| **1122** | organization and methods officer |
| **1122** | organization and methods researcher |
| **1221** | organization and productivity project manager |
| **1221** | organization and productivity project officer |
| **0114** | organization rules analysis manager |
| **1122** | organizational analysis consultant |
| **1122** | organizational analyst |
| **0125** | organizational methods analysis director |
| **0125** | organizational methods analysis director - business services |
| **0125** | organizational methods analysis manager |
| **0125** | organizational planning and development director |
| **4151** | organizational psychologist |
| **0114** | organizational rules analysis manager |
| **0125** | organizational services head |
| **2112** | organometallic chemist |
| **3232** | Oriental medical practitioner |
| **7445** | Oriental rug repairer |
| **4215** | orientation and mobility instructor |
| **4215** | orientation and mobility instructor for persons with a visual impairment |
| **4215** | orientation and mobility instructor of persons who are blind |
| **4215** | orientation and mobility teacher for persons who are blind |
| **4215** | orientation and mobility teacher of persons with a visual impairment |
| **9537** | ornament setter |
| **9412** | ornamental caster - foundry |
| **9537** | ornamental design caster |
| **9413** | ornamental glass production worker |
| **7611** | ornamental iron erector helper |
| **7236** | ornamental ironworker |
| **9416** | ornamental metal worker - metal fabrication |
| **7611** | ornamental metal worker helper |
| **7284** | ornamental plasterer |
| **9619** | ornamental stone setter - jewellery manufacturing |
| **7236** | ornamental-metal worker |
| **9534** | ornamenter - furniture finishing and refinishing |
| **2221** | ornithological technician |
| **2221** | ornithological technologist |
| **2121** | ornithologist |
| **5212** | ornithology centre interpreter |
| **5112** | ornithology curator |
| **5112** | ornithology museum curator |
| **3223** | orthodontic band maker |
| **3223** | orthodontic dental technician |
| **3222** | orthodontic hygienist |
| **3223** | orthodontic prosthesis maker |
| **3223** | orthodontic technician |
| **3113** | orthodontist |
| **3219** | orthopedic appliance assembler |
| **3414** | orthopedic assistant |
| **3219** | orthopedic mechanic |
| **3414** | orthopedic physician assistant |
| **6343** | orthopedic shoe repairman/woman |
| **6343** | orthopedic shoemaker |
| **6421** | orthopedic shoes salesperson - retail |
| **3414** | orthopedic supervisor |
| **3111** | orthopedic surgeon |
| **3414** | orthopedic technician |
| **3414** | orthopedic technologist |
| **3111** | orthopedics specialist |
| **3111** | orthopedist |
| **3414** | orthopedist aide |
| **9421** | orthophosphate wet mix operator |
| **3125** | orthoptist |
| **3236** | orthotherapist |
| **3219** | orthotic corset maker |
| **3219** | orthotic technician |
| **3219** | orthotist |

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| **3219** | orthotist-prosthetist |
| **2121** | osteologist |
| **3232** | osteopath - manual therapy |
| **3125** | osteopath - physician |
| **3125** | osteopathic doctor |
| **3232** | osteopathic manual practitioner |
| **3232** | osteopathic manual therapist |
| **3125** | osteopathic physician |
| **3143** | OT (occupational therapist) |
| **3111** | otolaryngologist |
| **3111** | otologist |
| **3111** | otorhinolaryngologist |
| **3111** | otorhinolaryngology specialist |
| **8262** | otter trawl fisherman/woman |
| **9526** | outboard motor assembler - mechanical assembly |
| **9226** | outboard motor assembly foreman/woman |
| **9526** | outboard motor inspector and tester |
| **9531** | outboard motor installer |
| **9531** | outboard motor installer-fitter |
| **7334** | outboard motor mechanic |
| **9526** | outboard motor prototype tester |
| **6552** | outbound customer service representative - contact centre |
| **6532** | outdoor guide |
| **4031** | outdoor physical education teacher - secondary school |
| **7335** | outdoor power equipment technician |
| **6532** | outfitter |
| **6532** | outfitting guide |
| **3012** | out-patient clinic nurse |
| **4156** | outplacement consultant |
| **4156** | outplacement counsellor |
| **3012** | outpost nurse |
| **1423** | output compositor - typesetting |
| **1423** | output operator - typesetting |
| **3012** | outreach nurse |
| **7311** | oven equipment repairer |
| **9212** | oven foreman/woman - chemical processing |
| **9613** | oven loader - chemical processing |
| **9536** | oven tender - painting and coating |
| **9446** | overcaster - garment manufacturing |
| **9446** | overcasting machine operator |
| **9446** | overedging machine operator |
| **7371** | overhead crane operator |
| **9437** | overhead dado operator - woodworking |
| **7441** | overhead door installer |
| **2133** | overhead electrical distribution engineer |
| **9446** | overlock sewing machine operator |
| **9446** | overseamer - garment manufacturing |
| **7237** | oxyacetylene torch welder |
| **7237** | oxyacetylene welder |
| **9211** | oxygen furnace foreman/woman - primary metal and mineral products processing |
| **9231** | oxygen furnace operator - primary metal processing |
| **9232** | oxygen recovery plant operator |
| **3214** | oxygen therapy technician |
| **7237** | oxyhydrogen welder |
| **9463** | oyster canner - fish processing |
| **2221** | oyster culture technician |
| **0823** | oyster farmer |
| **0823** | oyster grower |
| **8613** | oyster harvester |
| **9463** | oyster packer - fish processing |
| **8613** | oyster picker |
| **8613** | oyster picker-shucker |
| **9463** | oyster shucker - fish processing |
| **9463** | oyster washer tender - fish processing |

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| **5225** | P.A. (public address) operator |
| **5231** | P.A. (public address) system announcer |
| **5225** | P.A. (public address) system operator |
| **2123** | P.Ag. (professional agrologist) |
| **3132** | P.Dt. (professional dietitian) |
| **9523** | pacemaker assembler - electronic equipment manufacturing |
| **6622** | pack boy/girl |
| **5241** | package designer |
| **7452** | package lift operator |
| **0601** | package tour sales manager |
| **1313** | package underwriter - insurance |
| **6741** | packager - laundry and dry cleaning |
| **9619** | packager - manufacturing |
| **9619** | packaging company labourer |
| **9619** | packaging line worker |
| **9461** | packaging machine adjuster |
| **7311** | packaging machine mechanic |
| **9421** | packaging machine operator - chemical processing |
| **9461** | packaging machine operator - food processing |
| **0911** | packaging manufacturing plant manager |
| **9213** | packaging supervisor - food and beverage processing |
| **9537** | packaging tester |
| **9537** | packaging tester and inspector |
| **9619** | packer - manufacturing |
| **7452** | packer - material handling |
| **9461** | packer operator - tobacco products |
| **9617** | packer, liquid |
| **9433** | packer-wrapper attendant - papermaking |
| **9435** | packing carton assembler |
| **9461** | packing machine set-up operator |
| **9442** | pad mangle operator - textiles |
| **9535** | padded dashboard maker - plastic products manufacturing |
| **9423** | padded products repairer |
| **9441** | padder tender - textile manufacturing |
| **9619** | padding cutter - furniture assembly |
| **9619** | padding labourer |

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| **9442** | padding machine operator - textiles |
| **9441** | padding machine tender - textile manufacturing |
| **9437** | paddle maker - woodworking |
| **5253** | paddock blacksmith - racetrack |
| **5253** | paddock horseshoer - racetrack |
| **5253** | paddock judge - racetrack |
| **5253** | paddock plater - racetrack |
| **9441** | pad-extractor tender - textile manufacturing |
| **1423** | page compositor |
| **5241** | page designer |
| **1423** | page maker-up |
| **6533** | pai gow croupier |
| **6533** | pai gow domino croupier |
| **6533** | pai gow poker croupier |
| **9619** | pail handle inserter |
| **9536** | paint and mix production and control operator |
| **9536** | paint and varnish dipper operator |
| **9536** | paint baking oven tender |
| **9537** | paint brush final assembler |
| **9536** | paint control operator |
| **9226** | paint department foreman/woman - aircraft manufacturing |
| **9224** | paint department foreman/woman - furniture and fixtures manufacturing |
| **9226** | paint department foreman/woman - heavy equipment manufacturing |
| **9226** | paint department foreman/woman - heavy truck, bus and trailer manufacturing |
| **9226** | paint department foreman/woman - machinery manufacturing |
| **9226** | paint department foreman/woman - metal products manufacturing |
| **9221** | paint department foreman/woman - motor vehicle manufacturing |
| **9214** | paint department foreman/woman - plastic products |
| **9226** | paint department foreman/woman - railway rolling stock manufacturing |
| **9214** | paint department foreman/woman - rubber products |
| **9226** | paint department foreman/woman - shipbuilding |
| **9226** | paint department foreman/woman - transport equipment manufacturing (except motor vehicles) |
| **9214** | paint department supervisor - plastic products manufacturing |
| **9214** | paint department supervisor - rubber products manufacturing |
| **9522** | paint department technician - motor vehicle manufacturing |
| **9536** | paint dipper - flow coating |
| **9536** | paint machine operator |
| **9421** | paint maker |
| **9212** | paint making foreman/woman |
| **9421** | paint mixer |
| **9613** | paint plant labourer |
| **9613** | paint pourer |
| **9212** | paint processing foreman/woman |
| **9536** | paint production operator |
| **9537** | paint roller cover trimmer |
| **9619** | paint roller winder |
| **9536** | paint room attendant |
| **6421** | paint salesperson - retail |
| **9221** | paint shop foreman/woman - motor vehicle manufacturing |
| **9221** | paint shop supervisor - motor vehicle manufacturing |
| **9536** | paint spray inspector |
| **0621** | paint store manager |
| **9619** | paint stripper |
| **9536** | paint systems attendant |
| **2211** | paint technician |
| **9537** | paintbrush-head maker |
| **7294** | painter |
| **9536** | painter - motor vehicle manufacturing |
| **7322** | painter - motor vehicle repair |
| **5136** | painter - visual arts |
| **7294** | painter and decorator |
| **7294** | painter and decorator apprentice |
| **7611** | painter and decorator helper |
| **9536** | painter and letterer, railway cars |
| **7294** | painter and paperhanger |
| **7205** | painter foreman/woman - construction |
| **7611** | painter helper - construction |
| **7294** | painter-decorator |
| **9534** | painter-finisher - furniture finishing |
| **7205** | painters and decorators foreman/woman |
| **7205** | painters and decorators supervisor |
| **9226** | painters foreman/woman - metal products manufacturing |
| **7205** | painting and wallpapering contractor |
| **7205** | painting contractor |
| **9536** | painting machine attendant |
| **9536** | painting machine operator |
| **9536** | painting machine tender |
| **7205** | painting supervisor - construction |
| **5136** | painting teacher |
| **5112** | paintings conservator |
| **5212** | paintings restoration technician |
| **9536** | paint-sprayer operator |
| **2113** | paleobotanist |
| **2113** | paleoecologist |
| **2114** | paleometeorologist |
| **2113** | paleontologist |
| **2212** | paleontology technician |
| **6742** | pallbearer |
| **7452** | pallet lift operator |
| **7452** | pallet loader operator |
| **7452** | pallet truck operator |
| **7452** | palletizer operator |
| **3012** | palliative care nurse |

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| **6564** | palm reader |
| **2113** | palynologist |
| **2212** | palynology technician |
| **9213** | pan house foreman/woman - food and beverage processing |
| **9411** | pan tender |
| **9231** | panel board operator - primary metal and mineral products processing |
| **9436** | panel inspector - wood processing |
| **9437** | panel jointer machine tender - woodworking |
| **9437** | panel jointer, machine - woodworking |
| **9232** | panel operator - chemical processing |
| **9235** | panel operator - pulp and paper |
| **9437** | panel raiser operator - woodworking |
| **9437** | panel saw operator - woodworking |
| **9437** | panel saw tender, computerized - woodworking |
| **9525** | panelboard assembler - industrial electrical equipment |
| **9235** | panelboard operator - pulp and paper |
| **9434** | panel-groover operator - wood processing |
| **9434** | panel-sanding machine operator - wood processing |
| **5244** | panflute maker |
| **4217** | panthee |
| **9416** | pantograph burner - metal fabrication |
| **5244** | pantograph engraver - arts and crafts |
| **9416** | pantograph flame cutter - metal fabrication |
| **9417** | pantograph milling machine set-up operator |
| **9472** | pantograph setter |
| **9472** | pantographer - printing |
| **9461** | pantry worker - food and beverage processing |
| **9435** | paper bag machine operator |
| **9435** | paper bag machine tender |
| **9435** | paper bag maker |
| **9435** | paper box machine operator |
| **9435** | paper box machine tender |
| **9435** | paper box maker - paper converting |
| **1513** | paper boy/girl - courier service |
| **1513** | paper boy/paper girl |
| **9215** | paper coating supervisor - pulp and paper |
| **9619** | paper cone dipper and dryer |
| **9435** | paper cone former - paper converting |
| **9435** | paper cone winder - paper converting |
| **5112** | paper conservator |
| **9215** | paper converting supervisor |
| **9435** | paper cup machine tender - paper converting |
| **9435** | paper cutter - paper converting |
| **9215** | paper foreman/woman - pulp and paper |
| **9433** | paper grader |
| **6411** | paper industry sales consultant |
| **9215** | paper inspectors foreman/woman - pulp and paper |
| **9433** | paper jogger operation - pulp and paper |
| **7611** | paper latcher - construction |
| **9235** | paper machine control operator |
| **9215** | paper machine foreman/woman |
| **9215** | paper machine foreman/woman - pulp and paper |
| **9433** | paper machine hand |
| **9433** | paper machine operator |
| **9433** | paper machine winderman/woman |
| **9235** | paper maker - control operation |
| **9215** | paper mill foreman/woman |
| **0911** | paper mill manager |
| **9215** | paper mill supervisor |
| **9215** | paper mill workers foreman/woman |
| **9215** | paper product fabricating and assembling foreman/woman |
| **9435** | paper products inspector |
| **9215** | paper products makers foreman/woman - paper converting |
| **9432** | paper pulp tester |
| **9433** | paper roll finisher - pulp and paper |
| **9433** | paper roll wrapper - pulp and paper |
| **5241** | paper securities designer |
| **9619** | paper sheet counter - printing |
| **9435** | paper slitter operator |
| **9614** | paper sorter and counter |
| **9614** | paper tube production helper |
| **9435** | paper twister tender - paper converting |
| **7452** | paper wrapper - material handling |
| **9433** | paper-coating machine operator |
| **9435** | paper-converting machine operator |
| **9433** | paper-finishing machine operator |
| **7294** | paperhanger |
| **7611** | paperhanger helper |
| **7611** | paperhanger helper - construction |
| **7205** | paperhangers foreman/woman |
| **7205** | paperhanging contractor |
| **7205** | paperhanging foreman/woman |
| **9215** | papermaking and finishing foreman/woman |
| **9433** | papermaking and finishing machine operator |
| **9472** | paper-plate maker |
| **9435** | paper-punch press tender - paper converting |
| **9435** | papier-mâché moulder |
| **9619** | parachute folder |
| **9447** | parachute inspector - fabric products manufacturing |
| **9619** | parachute preparer |
| **9537** | parachute stringer |
| **9421** | paradichlorobenzene equipment tender |
| **4413** | paraeducator |
| **4211** | paralegal |
| **3234** | paramedic |
| **3234** | paramedic emergency medical technician |
| **3234** | paramedic worker |
| **2241** | paramedical equipment repairer |
| **4413** | paraprofessional educator |
| **2121** | parasitologist |
| **2121** | parasitology biologist |
| **1513** | parcel deliverer - courier service |
| **1511** | parcel post clerk |

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| 0132 | parcel processing plant manager |
| 4411 | parent's helper |
| 4154 | parish priest |
| 6722 | park attendant |
| 8255 | park caretaker |
| 5212 | park interpreter |
| 8255 | park labourers supervisor |
| 8255 | park maintenance head |
| 8612 | park maintenance labourer |
| 8255 | park maintenance supervisor |
| 8612 | park maintenance worker |
| 2121 | park naturalist |
| 2153 | park planner |
| 2224 | park ranger |
| 6722 | park receptionist |
| 8255 | park section head - arboriculture |
| 0412 | park superintendent - government services |
| 6316 | park supervisor |
| 4423 | parking control officer |
| 1221 | parking co-ordinator |
| 0621 | parking garage operator |
| 6742 | parking lot attendant |
| 6611 | parking lot cashier |
| 0621 | parking lot operator |
| 6316 | parking lot supervisor |
| 7621 | parking meter collector |
| 7445 | parking meter repairer |
| 7445 | parking meter servicer |
| 6742 | parking valet |
| 0412 | parks administration director |
| 2122 | parks and recreation forester |
| 0412 | parks service director |
| 1222 | parliamentary assistant |
| 1222 | parliamentary committee clerk |
| 0414 | parliamentary services director |
| 0012 | parole board chairman/woman |
| 4168 | parole board member |
| 4155 | parole officer |
| 4155 | parole supervisor |
| 7295 | parquet floor layer |
| 2111 | particle accelerator physicist |
| 2111 | particle physicist |
| 9215 | particleboard foreman/woman |
| 9436 | particleboard grader - wood processing |
| 9434 | particleboard line operator |
| 9215 | particleboard making foreman/woman |
| 9536 | particleboard spraying machine tender |
| 9434 | particleboard-forming machine operator |
| 9434 | particleboard-sizing saw tender |
| 9435 | partition assembly machine operator - paper converting |
| 9435 | partition slotter machine tender - paper converting |
| 1522 | parts clerk |
| 1215 | parts clerks supervisor |
| 1522 | parts counter clerk |
| 1522 | parts counter clerk - retail |
| 7514 | parts delivery driver |
| 1522 | parts lister |
| 0621 | parts manager - retail |
| 1215 | parts service supervisor |
| 1215 | parts shipping manager |
| 1522 | parts sorter |
| 1522 | parts supplier |
| 1522 | parts technician |
| 9523 | parts tester - electronic equipment manufacturing |
| 1522 | partsperson |
| 6524 | passenger agent - railway |
| 6524 | passenger agent (except airline) |
| 1225 | passenger and freight rates analyst |
| 6523 | passenger sales agent - airline |
| 6523 | passenger sales representative - airline |
| 6721 | passenger service attendant - railway |
| 6313 | passenger service co-ordinator - railway |
| 6522 | passenger service director - water transportation |
| 6523 | passenger service representative - airline |
| 2273 | passenger ship captain |
| 7362 | passenger train brakeman/woman |
| 7362 | passenger train conductor |
| 7361 | passenger train engineer |
| 7361 | passenger train locomotive engineer |
| 7304 | passenger train road foreman/woman |
| 1452 | passport clerk |
| 1452 | passport issuer |
| 1213 | passport office supervisor |
| 6321 | pasta chef |
| 9461 | pasta maker - food and beverage processing |
| 5223 | paste-up artist |
| 9461 | pasteurizer operator |
| 9461 | pasteurizer operator - food and beverage processing |
| 9527 | pasting machine operator - electrical equipment manufacturing |
| 4154 | pastor |
| 4217 | pastoral animator |
| 6321 | pastry chef |
| 6322 | pastry cook |
| 9617 | pastry cook helper |
| 6332 | pastry decorator |
| 6332 | pastry decorator - retail |
| 6332 | pastry maker |
| 6421 | pastry sales clerk |
| 9617 | pastry wrapper |
| 8431 | pasture rider |
| 8252 | pasture-managing supervisor |
| 6741 | patcher - laundry and dry cleaning |
| 9434 | patcher operator - wood processing |
| 6741 | patching machine operator - laundry and dry cleaning |
| 4161 | patent agent |
| 4112 | patent counsel |
| 4112 | patent lawyer |

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| 4161 | patent searcher |
| 4112 | patent solicitor |
| 3111 | pathologist - medical |
| 3111 | pathologist-hematologist |
| 3212 | pathology assistant |
| 3413 | patient care aide |
| 3413 | patient care assistant |
| 3413 | patient care associate |
| 3011 | patient care co-ordinator - nursing |
| 3413 | patient service aide |
| 3413 | patient service assistant |
| 3413 | patient service associate |
| 3413 | patient service attendant |
| 3413 | patient service worker |
| 1431 | patient-billing clerk |
| 0114 | patient-registration manager |
| 7441 | patio builder |
| 5253 | patrol judge - racetrack |
| 4311 | patrol officer - police |
| 6541 | patrol officer - security |
| 6541 | patrolman/woman - security |
| 9442 | pattern card preparer - textiles |
| 9445 | pattern cutter |
| 5245 | pattern designer and patternmaker - textile, leather and fur products |
| 2132 | pattern engineer |
| 9412 | pattern gater |
| 5245 | pattern grader |
| 5245 | pattern marker |
| 5245 | pattern marker - fabric products |
| 5245 | pattern modifier |
| 5245 | pattern modifier - textile, leather and fur products |
| 9412 | pattern moulder - foundry |
| 9442 | pattern puncher - textiles |
| 7272 | pattern repairman/woman - foundry |
| 7201 | pattern shop foreman/woman - metal machining |
| 9442 | pattern weaver - textiles |
| 7384 | patternmaker - aeronautics |
| 5245 | patternmaker - computer assisted |
| 5245 | patternmaker - textile products |
| 5245 | patternmaker - textile, leather and fur products |
| 6345 | patternmaker-upholsterer |
| 7611 | pavement line painter |
| 7611 | pavement line painter helper |
| 7611 | pavement striper |
| 7521 | paver operator |
| 7302 | pavers and surfacers foreman/woman |
| 9414 | paving and stone block maker - concrete and stone products |
| 7302 | paving contractor |
| 7312 | paving equipment mechanic |
| 7302 | paving foreman/woman |
| 7302 | paving gang road boss |
| 7611 | paving operations labourer |
| 7302 | paving, surfacing and related work foreman/woman |
| 0621 | pawnbroker |
| 1432 | pay accounts clerk |
| 1432 | pay advisor |
| 1432 | pay and benefits administrator |
| 1432 | pay and benefits clerk |
| 0112 | pay and benefits director |
| 0112 | pay and benefits manager |
| 1212 | pay and benefits supervisor |
| 1432 | pay clerk |
| 0112 | pay services director - human resources |
| 1432 | pay verifier |
| 7521 | payloader operator |
| 1212 | paymaster |
| 1422 | payment entry clerk |
| 1422 | payment input clerk |
| 1212 | payment processing unit supervisor |
| 1228 | payment service officer - government services |
| 0112 | pay-processing division director - government services |
| 1432 | payroll administrator |
| 1432 | payroll clerk |
| 1212 | payroll clerk supervisor |
| 1432 | payroll machine operator |
| 1432 | payroll officer |
| 0125 | payroll service manager |
| 1212 | payroll supervisor |
| 7246 | PBX (private branch exchange) and PABX (private automatic branch exchange) inspector - telecommunications |
| 7246 | PBX (private branch exchange) and PABX (private automatic branch exchange) installer - telecommunications |
| 7246 | PBX (private branch exchange) and PABX (private automatic branch exchange) installer and repairer - telecommunications |
| 7246 | PBX (private branch exchange) and PABX (private automatic branch exchange) repairer - telecommunications |
| 7246 | PBX (private branch exchange) inspector - telecommunications |
| 7246 | PBX (private branch exchange) repairer - telecommunications |
| 2282 | PC (personal computer) support analyst |
| 9523 | PCB (printed circuit board) assembler |
| 9523 | PCB (printed circuit board) assembly inspector |
| 9523 | PCB (printed circuit board) assembly machine operator - electronic equipment manufacturing |
| 9523 | PCB (printed circuit board) etcher |
| 9222 | PCB (printed circuit board) fabrication foreman/woman - electronic equipment manufacturing |

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| **9523** | PCB (printed circuit board) fabrication inspector |
| **9523** | PCB (printed circuit board) fabrication machine operator |
| **9222** | PCB (printed circuit board) fabrication supervisor - electronic equipment manufacturing |
| **9523** | PCB (printed circuit board) in-circuit machine -and repairing-machine operator |
| **9523** | PCB (printed circuit board) inspector |
| **9523** | PCB (printed circuit board) inspector and tester - electronic equipment manufacturing |
| **4164** | peace activist |
| **4311** | peace officer |
| **4164** | peace researcher |
| **9461** | peanut butter maker |
| **9461** | peanut-blanching machine tender - food and beverage processing |
| **6344** | pearl cutter |
| **9537** | pearl earring maker |
| **9537** | pearl maker |
| **6344** | pearl setter |
| **9537** | pearl stringer |
| **0811** | peat bog manager |
| **7612** | peat digger |
| **9411** | peat moss dehydrator tender |
| **7521** | peat-moss-cutting machine operator |
| **7521** | peat-moss-gathering machine operator |
| **9414** | pebble mill operator - stone products |
| **0421** | pedagogical co-ordinator |
| **9417** | pedestal drill operator - metal machining |
| **3141** | pediatric audiologist |
| **3113** | pediatric dentist |
| **3216** | pediatric echocardiographer |
| **3012** | pediatric intensive care nurse |
| **3012** | pediatric nurse |
| **3111** | pediatric oncologist |
| **3111** | pediatric surgeon |
| **3111** | pediatrician |
| **6562** | pedicurist |
| **3113** | pedodontist |
| **2115** | pedologist |
| **3219** | pedorthist |
| **4212** | peer support worker |
| **9612** | pellet grinder - metal products manufacturing |
| **9412** | pellet maker - foundry |
| **9617** | pellet mill worker - food and beverage processing |
| **9537** | pellet press operator - explosives manufacturing |
| **9537** | pellet press tender |
| **9411** | pellet press tender - primary metal processing |
| **9411** | pellet segregator - primary metal processing |
| **9231** | pelletizing control operator |
| **9441** | pelt dresser |
| **9441** | pelt dyer - hide and pelt processing |
| **9447** | pelt grader - hide and pelt processing |
| **9447** | pelt processing inspector |
| **9441** | pelt processing worker |
| **9441** | pelt shearer |
| **9441** | pelt stretcher - hide and pelt processing |
| **9537** | pen and pencil assembler |
| **9537** | pen and pencil inspector |
| **4422** | penal institution guard |
| **9537** | pen-and-pencil-knurling machine operator |
| **9619** | pencil blank presser |
| **9537** | pencil maker operator |
| **9537** | pencil maker tender |
| **9536** | pencil-coating machine tender |
| **9537** | pencil-eraser maker tender |
| **9537** | pencil-eraser-making machine tender |
| **9437** | pencil-grooving machine tender |
| **9537** | pencil-making machine operator |
| **9537** | pencil-making machine setter |
| **9537** | pencil-making machine tender |
| **9537** | pencil-pointing machine tender |
| **9437** | pencil-rounding machine tender |
| **9536** | pencil-tip-banding machine tender |
| **9619** | pencil-tipping machine feeder |
| **4422** | penitentiary guard |
| **4169** | penologist |
| **8431** | penrider |
| **1434** | pension administrator - insurance company |
| **0111** | pension plans administrator |
| **1434** | pension plans clerk - insurance |
| **0111** | pension services manager |
| **0112** | pensions and benefits manager |
| **5251** | pentathlete |
| **9447** | perch operator |
| **9447** | perch operator - textiles |
| **9447** | percher - textiles |
| **7445** | percussion instrument repairer |
| **5133** | percussionist |
| **9473** | perfect-binder operator - printing |
| **9473** | perfect-binder set-up operator - printing |
| **9473** | perforating machine operator - printing |
| **9473** | perforating machine tender - printing |
| **8615** | perforator helper - oil field services |
| **8615** | perforator loader helper - oil field services |
| **9473** | perforator operator - printing |
| **9473** | perforator tender - printing |
| **5134** | performance movement teacher |
| **1123** | performers agent |
| **5131** | performing arts artistic director |
| **5135** | performing arts extra |
| **9421** | perfume maker |
| **3214** | perfusion technologist |
| **3214** | perfusionist |
| **3012** | perinatal care nurse |
| **9414** | periodic kiln operator - clay products |
| **9414** | periodic kilnman/woman - clay products |
| **0512** | periodical managing editor |
| **1451** | periodicals clerk |

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|---|---|
| 1451 | periodicals clerk - library |
| 5111 | periodicals librarian |
| 6411 | periodicals sales representative |
| 6411 | periodicals sales representative - wholesale |
| 3222 | periodontal hygienist |
| 3113 | periodontist |
| 6222 | perishable food buyer |
| 9231 | perlite expander control panel operator - mineral products processing |
| 1524 | permanent inventory clerk |
| 9412 | permanent mould operator - foundry |
| 9537 | permanent press sprayer machine |
| 9537 | permanent press sprayer tender - garment and fabric products manufacturing |
| 7281 | permastone installer |
| 7281 | permastone mason |
| 0512 | permission manager - publishing |
| 1452 | permit clerk |
| 9235 | peroxide bleach plant operator - pulp and paper |
| 4033 | personal academic counsellor |
| 4412 | personal aide - home support |
| 4412 | personal assistant - home care |
| 6235 | personal banker |
| 6235 | personal banking accounts officer |
| 6235 | personal banking representative |
| 0013 | personal banking vice-president |
| 4412 | personal care aide - home care |
| 3413 | personal care aide - medical |
| 4412 | personal care attendant - home care |
| 3413 | personal care attendant - medical |
| 4412 | personal care provider - home care |
| 3413 | personal care provider - medical |
| 2174 | personal computer (PC) application developer |
| 6421 | personal computer salesperson - retail |
| 4033 | personal counsellor - education |
| 1434 | personal credit lines clerk |
| 1114 | personal financial planner |
| 6235 | personal financial services associate |
| 6235 | personal financial services officer |
| 6561 | personal image consultant |
| 6561 | personal image counsellor |
| 6561 | personal improvement consultant |
| 1434 | personal lines clerk - insurance |
| 1313 | personal lines underwriter |
| 6235 | personal loans officer |
| 1241 | personal secretary |
| 6742 | personal servant |
| 0122 | personal services manager - banking, credit and investment |
| 6623 | personal shopper |
| 4212 | personal skills development instructor - social services |
| 6561 | personal style co-ordinator |
| 4412 | personal support aide - home aide |
| 3413 | personal support aide - medical |
| 4412 | personal support worker - home support |
| 5254 | personal trainer |
| 0122 | personal trust manager |
| 1114 | personal trust officer |
| 6561 | personal wardrobe consultant |
| 0112 | personnel administration manager |
| 1223 | personnel administrator |
| 1223 | personnel adviser |
| 0125 | personnel agency manager |
| 0112 | personnel and industrial relations director |
| 0112 | personnel chief |
| 1415 | personnel clerk |
| 1211 | personnel clerks supervisor |
| 0125 | personnel consulting service manager |
| 0112 | personnel director |
| 1223 | personnel interviewer |
| 1223 | personnel management adviser |
| 0112 | personnel manager |
| 1223 | personnel officer |
| 1223 | personnel recruitment officer |
| 1121 | personnel research officer |
| 1411 | personnel scheduling clerk |
| 1223 | personnel selection officer |
| 1415 | personnel services clerk |
| 0112 | personnel services director |
| 0112 | personnel services manager |
| 1121 | personnel standards officer |
| 1223 | personnel supervisor |
| 0112 | personnel training and development manager |
| 0013 | personnel vice-president - bank |
| 0013 | personnel vice-president - financial, communications and other business services |
| 0016 | personnel vice-president - goods production, utilities, transportation and construction |
| 0014 | personnel vice-president - health, education, social and community services and membership organizations |
| 0015 | personnel vice-president - trade, broadcasting and other services |
| 7205 | pest control branch supervisor |
| 7205 | pest control division supervisor |
| 7444 | pest control operator |
| 7444 | pest control representative |
| 0651 | pest control service manager |
| 7444 | pest control service representative |
| 7205 | pest control supervisor |
| 7444 | pest control technician |
| 7444 | pest control trapper |
| 7444 | pest controller |
| 7444 | pest extermination representative |
| 7444 | pest exterminator |
| 7444 | pest fumigator |
| 9421 | pesticide mixer |
| 3215 | PET (positron-emission tomography) technologist |
| 0651 | pet care services manager |

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| **9461** | pet food cook - food and beverage processing |
| **6563** | pet groomer |
| **0651** | pet grooming establishment manager |
| **0651** | pet grooming salon manager |
| **6563** | pet master groomer |
| **6563** | pet shop attendant |
| **0621** | pet store manager |
| **6421** | pet store salesperson |
| **2134** | petrochemical engineer |
| **2211** | petrochemical engineering technician |
| **2211** | petrochemical engineering technologist |
| **2211** | petrochemical laboratory technologist |
| **2113** | petrographer |
| **9232** | petroleum blender |
| **2112** | petroleum chemist |
| **9232** | petroleum distillation operator |
| **0912** | petroleum distribution manager |
| **2145** | petroleum engineer |
| **2145** | petroleum engineer, production |
| **2212** | petroleum engineering technician |
| **2212** | petroleum engineering technologist |
| **2253** | petroleum exploration draftsperson |
| **2212** | petroleum field technologist |
| **2113** | petroleum geologist |
| **0212** | petroleum geology department manager |
| **2212** | petroleum geology technologist |
| **1225** | petroleum land administrator |
| **9232** | petroleum process operator |
| **9613** | petroleum process operator helper |
| **9212** | petroleum processing foreman/woman |
| **9212** | petroleum processing shift supervisor |
| **2211** | petroleum processing tester |
| **6411** | petroleum product sales representative - wholesale |
| **0016** | petroleum production company regional vice-president |
| **2145** | petroleum production engineer |
| **9232** | petroleum refiner |
| **7311** | petroleum refinery industrial mechanic |
| **9613** | petroleum refinery labourer |
| **9232** | petroleum refinery operator |
| **2134** | petroleum refinery process engineer |
| **9212** | petroleum refining supervisor |
| **0121** | petroleum research manager - securities |
| **2211** | petroleum research technologist |
| **2145** | petroleum reservoir engineer |
| **2212** | petroleum technician |
| **2211** | petroleum tester |
| **9232** | petroleum treater |
| **9232** | petroleum unit operator |
| **2145** | petroleum well completion engineer |
| **2113** | petrologist |
| **2212** | petrology technician |
| **2113** | petrophysicist |
| **6563** | pet-sitter |
| **0651** | pet-sitting service manager |
| **1212** | petty cash supervisor |
| **4313** | petty officer first class |
| **4313** | petty officer second class |
| **2121** | pharmaceutical bacteriologist |
| **2112** | pharmaceutical chemist |
| **9212** | pharmaceutical compounding foreman/woman |
| **9232** | pharmaceutical processing operator |
| **6221** | pharmaceutical sales representative |
| **6221** | pharmaceutical salesperson |
| **2211** | pharmaceuticals and toiletries inspector |
| **6222** | pharmaceuticals buyer |
| **2211** | pharmaceuticals inspector |
| **9212** | pharmaceuticals production supervisor |
| **3131** | pharmacist |
| **3131** | pharmacist consultant |
| **2112** | pharmacological chemist |
| **2121** | pharmacologist |
| **3414** | pharmacy aide |
| **6421** | pharmacy clerk |
| **0621** | pharmacy department manager - retail |
| **0311** | pharmacy director |
| **0621** | pharmacy manager - retail |
| **4011** | pharmacy professor - university |
| **3414** | pharmacy side room attendant |
| **3414** | pharmacy supply assistant |
| **3219** | pharmacy technical assistant |
| **3219** | pharmacy technician |
| **0821** | pheasant breeder |
| **8431** | pheasant farm worker |
| **9421** | phenol plant extractor operator |
| **0621** | philatelist |
| **4169** | philologist |
| **4169** | philosopher |
| **4011** | philosophy professor - university |
| **3212** | phlebotomist |
| **3212** | phlebotomy aide |
| **6564** | phone agent - personal services |
| **3111** | phoniatrician |
| **3111** | phoniatrist |
| **9232** | phosphate process fertilizer maker |
| **9421** | phosphoric acid extractor |
| **5113** | photo archivist |
| **2255** | photo cartographer |
| **9474** | photo developer |
| **9474** | photo developer-printer |
| **9474** | photo developing inspector |
| **9474** | photo lab technician |
| **5223** | photo process letterer - graphic arts |
| **9474** | photo processor |
| **5223** | photo stencil maker |
| **9474** | photo technician |
| **1423** | photocomposer operator |
| **7303** | photocomposer operators supervisor |
| **7303** | photocomposers supervisor |
| **1423** | photocomposing machine keyboard operator |
| **1423** | photocomposing machine operator |

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| 1423 | photocomposing machine tender |
| 1423 | photocomposing-perforating machine operator |
| 1423 | photocomposition typesetter |
| 1423 | photocompositor |
| 2242 | photocopier repairer |
| 2242 | photocopier servicer |
| 2242 | photocopy machine servicer |
| 2242 | photocopy machine technician |
| 1211 | photocopy unit supervisor |
| 9471 | photocopying machine tender |
| 2242 | photoelectric sorting machine repairer |
| 7381 | photoengraved plate proof press operator - printing |
| 7381 | photoengraved plate proof puller - printing |
| 9472 | photoengraver - printing |
| 7303 | photoengravers foreman/woman |
| 9472 | photoengraving etcher - printing |
| 9472 | photoengraving finisher |
| 9472 | photoengraving platemaker |
| 9472 | photoengraving retoucher - printing |
| 9474 | photofinisher |
| 7445 | photofinishing equipment repairer |
| 2113 | photogeologist |
| 2131 | photogrammetric engineer |
| 2255 | photogrammetric technician |
| 2255 | photogrammetric technologist |
| 2255 | photogrammetrist |
| 5112 | photograph conservator |
| 9474 | photograph developer |
| 9474 | photograph developing inspector |
| 9474 | photograph enlarger |
| 1452 | photograph examiner |
| 1451 | photograph filer - library |
| 9474 | photograph inspector - photographic processing |
| 9474 | photograph mounter |
| 5223 | photograph retoucher |
| 5221 | photographer |
| 5223 | photographic airbrush artist |
| 7303 | photographic and film processing foreman/woman |
| 7303 | photographic and film processing supervisor |
| 9474 | photographic and film-processing machine operator |
| 5223 | photographic colourist |
| 9474 | photographic enlarger operator |
| 6421 | photographic equipment and supplies salesperson - retail |
| 9537 | photographic equipment assembler |
| 9227 | photographic equipment assembly foreman/woman |
| 9537 | photographic equipment assembly inspector |
| 9537 | photographic equipment inspector |
| 0621 | photographic equipment store manager |
| 9474 | photographic film printer |
| 9474 | photographic film processor |
| 7303 | photographic lab foreman/woman |
| 9474 | photographic printer |
| 7303 | photographic processing and finishing foreman/woman |
| 9474 | photographic processor |
| 7303 | photographic processors supervisor |
| 6411 | photographic services sales representative |
| 6421 | photographic studio clerk |
| 0621 | photographic studio manager |
| 9474 | photographic-film-processing machine operator |
| 9474 | photographic-processing machine operator |
| 5223 | photography colourist |
| 5112 | photography museum curator |
| 5221 | photography supervisor |
| 9472 | photogravure camera operator - printing |
| 5221 | photojournalist |
| 1423 | photomechanical composition typographer |
| 5221 | photomicrographer |
| 2111 | photonics physicist |
| 9472 | photopolymer platemaker |
| 9523 | photoresist printer - electronic equipment manufacturing |
| 1423 | phototypesetter |
| 1423 | phototypesetter operator |
| 1423 | phototypesetter terminal operator |
| 1423 | phototypesetting machine operator |
| 6564 | phrenologist |
| 3111 | physiatrist |
| 4031 | physical and health education teacher - secondary school |
| 4169 | physical anthropologist |
| 2112 | physical chemist |
| 4166 | physical education co-ordinator - education |
| 4031 | physical education high school teacher |
| 0513 | physical education programs director |
| 4032 | physical education teacher - elementary school |
| 4031 | physical education teacher - secondary school |
| 4169 | physical geographer |
| 3111 | physical medicine and rehabilitation specialist |
| 2142 | physical metallurgical engineer |
| 2115 | physical metallurgist |
| 2212 | physical metallurgy technician |
| 2212 | physical metallurgy technologist |
| 2114 | physical meteorologist |
| 2113 | physical oceanographer |
| 3237 | physical rehabilitation technician |
| 3142 | physical rehabilitation therapist |
| 2112 | physical research chemist |
| 2161 | physical science and engineering statistician |
| 4031 | physical science teacher - secondary school |
| 2241 | physical sciences laboratory technician |
| 4011 | physical sciences professor - university |
| 0212 | physical sciences program manager |

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| **9415** | physical tester - steel mill |
| **3142** | physical therapist |
| **3237** | physical therapist assistant (PTA) |
| **3237** | physical therapy aide |
| **3414** | physical therapy attendant |
| **3142** | physical therapy clinical co-ordinator |
| **3142** | physical therapy clinical specialist |
| **3142** | physical therapy supervisor |
| **3237** | physical therapy technician |
| **0513** | physical training director |
| **5254** | physical training instructor |
| **5254** | physical training leader |
| **3124** | physician assistant |
| **3112** | physician resident |
| **3012** | physician's office nurse |
| **2111** | physicist |
| **4011** | physics department chairman/woman - university |
| **4011** | physics department chairperson - university |
| **2241** | physics department electronics technologist |
| **4011** | physics department head - university |
| **4011** | physics professor - university |
| **2111** | physics research scientist |
| **4031** | physics teacher - secondary school |
| **2121** | physiological biophysicist |
| **2112** | physiological chemist |
| **4151** | physiological psychologist |
| **2121** | physiologist |
| **2121** | physiologist-biochemist - nuclear medicine |
| **4011** | physiology professor - university |
| **3142** | physiotherapist |
| **3237** | physiotherapist assistant (PTA) |
| **3237** | physiotherapy aide |
| **3237** | physiotherapy assistant |
| **3414** | physiotherapy attendant |
| **3142** | physiotherapy clinical co-ordinator |
| **3414** | physiotherapy helper |
| **3142** | physiotherapy supervisor |
| **3237** | physiotherapy technician |
| **2121** | phytobiologist |
| **2121** | phytopathologist |
| **3414** | phytotherapy assistant |
| **5133** | pianist |
| **7445** | piano action adjuster |
| **9537** | piano action assembler |
| **9537** | piano action inspector-adjuster |
| **7445** | piano action regulator |
| **9537** | piano and organ bench worker |
| **9534** | piano and organ finisher |
| **9534** | piano and organ refinisher |
| **9537** | piano assembler |
| **9537** | piano assembly inspector |
| **9537** | piano back assembler |
| **9537** | piano case assembler |
| **9537** | piano inspector |
| **9537** | piano mechanism assembler |
| **7445** | piano repairer |
| **7445** | piano stringer |
| **9537** | piano subassembler |
| **5133** | piano teacher - private, conservatory or studio lessons |
| **7445** | piano technician |
| **7445** | piano tone regulator |
| **7445** | piano tuner |
| **7445** | piano tuner-technician |
| **9523** | pick and place machine operator - electronic equipment manufacturing |
| **9616** | pick remover - textile processing |
| **9441** | picker - textile manufacturing |
| **9441** | picker tender - textile manufacturing |
| **8241** | picker truck operator |
| **9615** | picker, beam press - rubber products manufacturing |
| **9441** | picking machine operator - textile manufacturing |
| **9441** | picking machine tender - textile manufacturing |
| **9411** | pickle line operator - primary metal processing |
| **9461** | pickleman/woman - food and beverage processing |
| **9461** | pickler - food and beverage processing |
| **9441** | pickler - hide and pelt processing |
| **9411** | pickler operator - primary metal processing |
| **0911** | pickling plant manager |
| **9461** | pickling solution injector - food and beverage processing |
| **9616** | pick-pulling machine tender |
| **7452** | pick-up machine operator |
| **5241** | pictographist |
| **5122** | picture editor |
| **9472** | picture engraver - printing |
| **9474** | picture enlarger - photographic processing |
| **9532** | picture frame assembler - furniture and fixtures manufacturing |
| **5212** | picture framer - museum and art gallery |
| **6421** | picture framing consultant - retail |
| **9523** | picture tube assembler |
| **9523** | picture tube screen aluminizer |
| **9523** | picture tube tester - electronic equipment manufacturing |
| **9461** | pie dough roller |
| **9461** | pie filling cooker |
| **9461** | pie filling mixer |
| **9461** | pie maker, machine |
| **9616** | piece hauler - textile processing |
| **8421** | pieceworker - logging |
| **8422** | pieceworker - silviculture |
| **9461** | pie-making machine operator |
| **7302** | pier foreman/woman |
| **9411** | piercing mill operator - primary metal processing |
| **9411** | pig caster - primary metal processing |
| **9411** | pig iron pourer |

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|---|---|
| **9613** | pigment presser |
| **5254** | pilates instructor |
| **7611** | pile driver operator helper - crane operation |
| **7611** | pile driver operator's helper |
| **7521** | pile driver winch operator |
| **7611** | pile driving chainman/woman |
| **7371** | pile driving crane operator |
| **7611** | pile driving ground worker |
| **9441** | pile fabric finisher |
| **7521** | pile-driving hammer operator |
| **7611** | pile-driving lead placer helper |
| **9441** | pile-finishing machine tender - textile manufacturing |
| **7452** | piler - material handling |
| **9619** | piler - printing |
| **9614** | piler - wood processing |
| **7452** | piler (except processing) |
| **9537** | pill machine operator |
| **9537** | pill maker operator |
| **9537** | pill-coating machine operator |
| **2271** | pilot - air transport |
| **2273** | pilot - water transport |
| **2271** | pilot instructor |
| **9212** | pilot plant foreman/woman - chemical processing |
| **2211** | pilot plant technician |
| **2211** | pilot plant technologist |
| **9232** | pilot plant tender |
| **1525** | pilot services dispatcher |
| **9418** | pin maker - metal products |
| **9437** | pin maker - wood products manufacturing |
| **7311** | pin setter - textile manufacturing |
| **5251** | ping-pong player |
| **9442** | pinning machine operator |
| **9442** | pinning machine operator - textiles |
| **7611** | pipe aligner - pipeline construction |
| **9411** | pipe and tube roll setter - primary metal processing |
| **9536** | pipe coater-painter |
| **9412** | pipe coremaker - foundry |
| **7611** | pipe doper - construction |
| **9422** | pipe extrusion machine operator - plastic manufacturing |
| **9414** | pipe finisher - clay products |
| **9414** | pipe fittings moulder - concrete products |
| **9619** | pipe grader |
| **7293** | pipe insulator |
| **9414** | pipe junction maker - concrete products |
| **7302** | pipe laying contractor |
| **7442** | pipe locator - utilities |
| **9611** | pipe maintenance worker, ore processing |
| **5244** | pipe organ builder |
| **7441** | pipe organ erector |
| **7441** | pipe organ installer |
| **7445** | pipe organ tuner and repairer |
| **9536** | pipe spray painter |
| **9414** | pipe tester - concrete products |
| **2261** | pipe tester - non-destructive testing |
| **9417** | pipe threader |
| **8411** | pipe turner - trackman/woman |
| **9416** | pipe-bending machine operator - metal fabrication |
| **7611** | pipe-cleaning and covering machine operator |
| **7252** | pipefitter |
| **7252** | pipefitter - shipbuilding |
| **7611** | pipefitter helper - construction |
| **7612** | pipefitter helper - shipbuilding |
| **7203** | pipefitters foreman/woman |
| **7203** | pipefitters supervisor |
| **7252** | pipefitter-steamfitter |
| **7203** | pipefitting contractor |
| **7611** | pipelayer |
| **7611** | pipelayer - construction |
| **7611** | pipelayer - drainage systems |
| **7611** | pipelayer - irrigation |
| **7521** | pipelayer operator |
| **2271** | pipeline air patrol pilot |
| **7611** | pipeline caulker |
| **9232** | pipeline compressor station operator |
| **2264** | pipeline construction inspector |
| **2264** | pipeline construction inspector foreman/woman |
| **0711** | pipeline construction manager |
| **0711** | pipeline construction superintendent |
| **7302** | pipeline construction supervisor |
| **2262** | pipeline equipment inspector |
| **7535** | pipeline equipment servicer |
| **9212** | pipeline foreman/woman |
| **9232** | pipeline gauger |
| **2262** | pipeline inspector |
| **2264** | pipeline inspector foreman/woman |
| **7302** | pipeline installation supervisor |
| **7611** | pipeline labourer |
| **8412** | pipeline locator - oil and gas |
| **7442** | pipeline maintenance worker |
| **7611** | pipeline mandrel operator |
| **9212** | pipeline operations supervisor |
| **7442** | pipeline patrolman/woman |
| **7442** | pipeline rehabilitation worker |
| **7445** | pipeline safety valve repairer |
| **7535** | pipeline service truck driver |
| **2154** | pipeline surveyor |
| **2261** | pipeline testing technician - non-destructive testing |
| **2134** | pipeline transport engineer |
| **7445** | pipeline valve repairer |
| **7237** | pipeline welder |
| **7611** | pipeline welder helper |
| **7611** | pipeline worker - construction |
| **7611** | pipeline-liner installer |
| **7302** | pipelines construction foreman/woman |
| **0912** | pipelines operations manager |
| **9417** | pipe-threading machine operator |

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| **8411** | pipeworker - underground mining |
| **8614** | pipeworker helper - underground mining |
| **2253** | piping draftsperson |
| **2132** | piping engineer |
| **9446** | piping-sewing machine operator |
| **2221** | pisciculture bacteriological technologist |
| **6313** | pit boss gaming |
| **7611** | pit bottom worker |
| **9412** | pit moulder |
| **9412** | pit moulder - foundry |
| **8614** | pit scaler - underground mining |
| **8614** | pit-scaler helper |
| **6322** | pizza cook |
| **7514** | pizza delivery driver |
| **0125** | placement agency manager |
| **0125** | placement office manager |
| **1223** | placement officer - human resources |
| **2113** | placer geologist |
| **5253** | placing judge - racetrack |
| **4311** | plain-clothes officer |
| **2254** | plane table operator - surveying |
| **9431** | planer - sawmill |
| **9437** | planer - woodworking |
| **9437** | planer feeder - woodworking |
| **9436** | planer grader - wood processing |
| **9436** | planer mill grader - wood processing |
| **9431** | planer mill machine operator |
| **9431** | planer operator |
| **9417** | planer operator - metal machining |
| **9431** | planer operator - sawmill |
| **9414** | planer operator - stone products |
| **9437** | planer operator - woodworking |
| **9417** | planer set-up operator - metal machining |
| **9437** | planer tender - woodworking |
| **9431** | planerman/woman - sawmill |
| **9224** | planers, turners, shapers and related wood-machining workers foreman/woman - furniture and fixtures manufacturing |
| **5212** | planetarium interpreter |
| **5212** | planetarium technician |
| **2153** | planner |
| **2153** | planning analyst - land use |
| **0114** | planning and organizational development manager |
| **4165** | planning co-ordinator - district health council program |
| **1221** | planning officer |
| **2233** | planning technician |
| **0013** | planning vice-president - financial, communications and other business services |
| **0016** | planning vice-president - goods production, utilities, transportation and construction |
| **0014** | planning vice-president - health, education, social and community services and membership organizations |
| **0015** | planning vice-president - trade, broadcasting and other services |
| **1111** | plant accountant |
| **2121** | plant anatomist |
| **0911** | plant assistant manager |
| **2121** | plant breeder |
| **2221** | plant breeding technician |
| **8612** | plant care worker |
| **7271** | plant carpenter |
| **6733** | plant cleaner |
| **1111** | plant controller |
| **1525** | plant dispatcher |
| **2225** | plant doctor |
| **8612** | plant doctor helper |
| **2121** | plant ecologist |
| **7242** | plant electrician |
| **7202** | plant electrician supervisor |
| **2141** | plant engineer |
| **7311** | plant equipment mechanic |
| **6541** | plant gatekeeper |
| **0822** | plant grower - nursery |
| **6541** | plant guard |
| **9618** | plant labourer - fish processing |
| **2233** | plant layout technician |
| **7311** | plant machinery maintenance mechanic |
| **7242** | plant maintenance electrician |
| **0714** | plant maintenance manager |
| **7311** | plant maintenance mechanic |
| **7294** | plant maintenance painter |
| **9241** | plant maintenance stationary engineer |
| **0714** | plant maintenance superintendent |
| **6733** | plant maintenance worker |
| **0911** | plant manager |
| **0132** | plant manager - postal and courier services |
| **2121** | plant nematologist |
| **0132** | plant operations manager - postal service |
| **2121** | plant pathologist |
| **2221** | plant pathology technician |
| **2221** | plant pathology technologist |
| **2121** | plant physiologist |
| **2121** | plant population biologist |
| **2222** | plant primary products inspector |
| **8432** | plant propagator - greenhouse or nursery |
| **2222** | plant protection inspector |
| **2121** | plant scientist |
| **0132** | plant superintendent - postal and courier services |
| **2121** | plant taxonomist |
| **7233** | plant tinsmith |
| **6531** | plant tour guide |
| **8252** | planting and cultivation contractor |
| **8211** | planting crew foreman/woman |
| **8255** | plantscape maintenance contractor |
| **2225** | plantscape technician |
| **2111** | plasma physicist |
| **9414** | plaster die maker |
| **7384** | plaster mould maker - aircraft |
| **3223** | plaster moulder - dentures |
| **7384** | plaster pattern maker |

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| **7384** | plaster pattern maker - aircraft |
| **3414** | plaster room aide |
| **3414** | plaster room attendant |
| **9611** | plasterboard cutter - mineral products processing |
| **9415** | plasterboard inspector - mineral products processing |
| **9611** | plasterboard machine feeder - mineral products manufacturing |
| **9414** | plasterboard machine operator |
| **9414** | plasterboard-mixing machine tender |
| **7284** | plasterer |
| **7284** | plasterer apprentice |
| **7205** | plasterer foreman/woman |
| **7611** | plasterer helper |
| **7205** | plasterer-contractor |
| **7284** | plasterer-decorator |
| **7205** | plastering and drywall application contractor |
| **7205** | plastering and drywalling contractor |
| **7205** | plastering contractor |
| **7205** | plastering supervisor |
| **9535** | plastic and composite worker |
| **9522** | plastic and painted panels inspector - motor vehicle manufacturing |
| **9535** | plastic ankle piece moulder |
| **5136** | plastic arts artist |
| **9422** | plastic bag machine operator |
| **9422** | plastic bag maker operator |
| **9535** | plastic bottle trimmer |
| **9535** | plastic box maker |
| **9535** | plastic case assembler |
| **9535** | plastic casket maker |
| **9422** | plastic centrifugal caster |
| **9422** | plastic coagulation operator |
| **9422** | plastic coagulator |
| **9535** | plastic coating fabricator |
| **9422** | plastic compounder |
| **9535** | plastic cutter |
| **9422** | plastic extruder operator |
| **9422** | plastic film roll inspector |
| **9422** | plastic footwear moulder operator |
| **9214** | plastic inspector foreman/woman |
| **7293** | plastic insulation applicator |
| **9437** | plastic laminator - wood furniture manufacturing |
| **9422** | plastic mannequin moulder - plastic manufacturing |
| **9535** | plastic material reeler and cutter |
| **9422** | plastic mixer operator |
| **9422** | plastic mould setter |
| **9422** | plastic moulder, compression |
| **9535** | plastic packing fabricator |
| **9535** | plastic parts assembler |
| **9422** | plastic pipe production worker |
| **9535** | plastic piping fabricator |
| **9471** | plastic printer |
| **9619** | plastic printer helper |
| **6411** | plastic product sales representative - wholesale |
| **9535** | plastic products assembler |
| **9535** | plastic products assembly repairer |
| **9535** | plastic products buffer |
| **9535** | plastic products fabricator |
| **9535** | plastic products finisher |
| **9535** | plastic products former |
| **9214** | plastic products inspection supervisor |
| **9535** | plastic products inspector |
| **9535** | plastic products inspector and tester |
| **9214** | plastic products inspectors supervisor |
| **9535** | plastic products laminator |
| **9214** | plastic products manufacturing foreman/woman |
| **9535** | plastic products manufacturing inspector |
| **9615** | plastic products manufacturing labourer |
| **9214** | plastic products manufacturing supervisor |
| **9535** | plastic products trimmer |
| **9535** | plastic products vacuum-forming machine tender |
| **0911** | plastic products-manufacturing plant manager |
| **9535** | plastic reproduction layup worker |
| **9535** | plastic sheet finisher |
| **7381** | plastic sheet offset press operator |
| **9535** | plastic sign trimmer and assembler |
| **3111** | plastic surgeon |
| **3111** | plastic surgery specialist |
| **9535** | plastic tank assembler |
| **9535** | plastic template builder |
| **9535** | plastic toy assembler |
| **9422** | plastic windshield processor |
| **9422** | plasticator operator |
| **9422** | plastic-extrusion operator |
| **9422** | plastic-fibre-extruding machine tender |
| **9422** | plastic-film extrusion machine operator |
| **9619** | plastic-packing machine tender |
| **9422** | plastic-pipe production machine operator |
| **9422** | plastic-pipe-extruder operator |
| **9422** | plastics and plastic products compounder |
| **2112** | plastics and resins chemist |
| **2211** | plastics and synthetic resins technician |
| **9535** | plastics assembler |
| **9535** | plastics cementer |
| **9535** | plastics cutter |
| **2134** | plastics engineer |
| **9535** | plastics inspector |
| **9535** | plastics laminator - plastic manufacturing |
| **9422** | plastics machine operator |
| **2233** | plastics manufacturing technician |
| **9619** | plastics masker |
| **9422** | plastics moulder |
| **2233** | plastics moulding technician |
| **9421** | plastics pelletizer |
| **9422** | plastics press operator |
| **9422** | plastics processing compounder |

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| **9214** | plastics shop foreman/woman |
| **9422** | plastics strainer operator |
| **2233** | plastics technician |
| **9535** | plastics trimmer |
| **9422** | plastics-blending machine tender |
| **9422** | plastics-moulding machine operator |
| **9422** | plastics-moulding machine setter |
| **9422** | plastic-spreading machine operator |
| **7311** | plastics-processing equipment mechanic |
| **9422** | plastics-processing machine setter |
| **9214** | plastics-processing shop foreman/woman |
| **9214** | plastics-processing shop supervisor |
| **9416** | plate burner - metal fabrication |
| **9535** | plate changer - plastic manufacturing |
| **1411** | plate filing clerk |
| **9472** | plate finisher - printing |
| **7611** | plate fitter helper - construction |
| **7292** | plate glass installer |
| **9472** | plate grainer - printing |
| **9612** | plate grinder - metal products manufacturing |
| **9472** | plate processor - printing |
| **9472** | plate processor operator - printing |
| **9411** | plate roller - primary metal processing |
| **9411** | plate rolling mill operator - primary metal processing |
| **9416** | plate shear operator - metal fabrication |
| **7201** | plate shop foreman/woman |
| **9612** | plate worker helper - metal products manufacturing |
| **9472** | plate-graining machine tender |
| **9472** | platemaker |
| **9472** | platemaker - printing |
| **7303** | platemakers supervisor |
| **9472** | platemaking etcher |
| **7303** | platemaking supervisor - printing |
| **9435** | platen press operator - paper converting |
| **7381** | platen press operator - printing |
| **9473** | platen press operator, foil stamping |
| **7381** | platen press tender |
| **9527** | plate-parting machine operator - electrical equipment manufacturing |
| **7235** | plater |
| **6344** | plater - jewellery manufacturing |
| **7235** | plater - shipbuilding |
| **9612** | plater helper |
| **9612** | plater helper - metal fabrication |
| **7303** | plateroom supervisor - printing |
| **7235** | plater-welder |
| **7235** | platework fabricator |
| **7235** | platework fabricator and fitter |
| **7201** | platework fabricator supervisor |
| **7201** | platework fabricators foreman/woman |
| **7235** | platework fitter |
| **8222** | platform superintendent - oil and gas drilling |
| **9612** | plating room helper |
| **9536** | plating tank operator |
| **4153** | play therapist |
| **5225** | playback operator |
| **5254** | playground leader |
| **7621** | playground maintenance man/woman |
| **5254** | playground worker |
| **5121** | playwright |
| **0621** | pleasure boat dealer |
| **6741** | pleat finisher - laundry and dry cleaning |
| **6741** | pleat presser - laundry and dry cleaning |
| **9441** | pleater - textile manufacturing |
| **9537** | pleating machine tender - garment manufacturing |
| **9535** | Plexiglas assembler |
| **9535** | Plexiglas former |
| **9421** | plodder operator |
| **9461** | plug maker - tobacco processing |
| **9461** | plug-cutting machine tender - tobacco processing |
| **9611** | plugger - primary metal processing |
| **7251** | plumber |
| **7251** | plumber - pipefitting |
| **7251** | plumber apprentice |
| **7203** | plumber foreman/woman |
| **7611** | plumber helper |
| **7203** | plumbers supervisor |
| **7203** | plumbing and heating contractor |
| **6221** | plumbing and heating services sales representative |
| **7203** | plumbing contractor |
| **2234** | plumbing estimator - construction |
| **2264** | plumbing inspector |
| **7251** | plumbing installer |
| **7251** | plumbing mechanic |
| **9423** | ply assembler - rubber |
| **9423** | ply splicer - rubber products manufacturing |
| **9436** | plywood and veneer matcher - wood processing |
| **9434** | plywood and veneer patcher and repairer |
| **9614** | plywood and veneer plant labourer |
| **9531** | plywood boat veneer layer |
| **9434** | plywood bundler |
| **9614** | plywood dryer feeder |
| **9436** | plywood grader |
| **9436** | plywood grader - wood processing |
| **9215** | plywood inspection foreman/woman - wood processing |
| **9436** | plywood inspector |
| **9436** | plywood inspector - wood processing |
| **9215** | plywood making foreman/woman |
| **9434** | plywood panel assembler |
| **9434** | plywood panel groover operator - wood processing |
| **9434** | plywood patcher |
| **9434** | plywood press operator |
| **9434** | plywood-sizing saw tender - wood processing |
| **7611** | pneumatic drill operator - construction |
| **7611** | pneumatic hammer operator - construction |

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| **7445** | pneumatic tool repairer |
| **7445** | pneumatic tube repairer |
| **7445** | pneumatic unit tester and repairer |
| **3111** | pneumologist |
| **9471** | pochoir silk-screen printing machine operator |
| **9619** | pocket marker - garment manufacturing |
| **9446** | pocket setter |
| **9418** | pocketed spring machine tender |
| **9619** | pocket-folding machine feeder-loader - printing |
| **0311** | podiatric clinic manager |
| **3125** | podiatrist |
| **5121** | poet |
| **1122** | point of sale system manager |
| **9411** | pointer operator - primary metal processing |
| **6533** | poker croupier |
| **5251** | poker player |
| **5244** | poker-work artisan |
| **8421** | pole cutter |
| **7452** | pole distributor operator |
| **9437** | pole framer - wood products |
| **9436** | pole inspector - wood processing |
| **9525** | pole shoe assembler - industrial electrical equipment |
| **7452** | pole stacker operator |
| **9441** | poler - textile manufacturing |
| **9615** | pole-up man/woman - rubber products manufacturing |
| **4311** | police cadet |
| **0431** | police captain |
| **0431** | police chief |
| **0431** | police chief - regional operations |
| **4021** | police college teacher |
| **4311** | police constable |
| **4311** | police corporal |
| **1525** | police department dispatcher |
| **4311** | police diver |
| **4311** | police diver - salvage |
| **0431** | police force inspector |
| **0431** | police inspector |
| **4021** | police instructor |
| **4311** | police investigator |
| **0431** | police lieutenant |
| **4311** | police officer |
| **5221** | police photographer |
| **4311** | police sergeant |
| **0431** | police staff inspector |
| **1411** | police station clerk |
| **0431** | police superintendent |
| **3111** | police surgeon |
| **4311** | policeman/woman |
| **0413** | policy and planning director - education programs |
| **1434** | policy change clerk - insurance |
| **1434** | policy clerk - insurance |
| **4165** | policy development officer - nursing homes |
| **1434** | policy information clerk - insurance |
| **9414** | polisher - concrete, clay and stone products |
| **9441** | polisher - textile fibre |
| **9537** | polisher, precision optical lenses - non-prescription |
| **9619** | polisher, shoe manufacturing |
| **9612** | polisher, slide fasteners - metal products manufacturing |
| **9534** | polisher, wooden furniture - furniture finishing |
| **9418** | polishing machine operator - metal products |
| **9535** | polishing machine operator - plastic manufacturing |
| **3414** | polishing pad mounter |
| **5123** | political analyst - radio or television |
| **5241** | political caricaturist |
| **5241** | political cartoonist |
| **5123** | political columnist |
| **4169** | political geographer |
| **4169** | political historian |
| **0014** | political organization general manager |
| **0423** | political organization manager |
| **4164** | political organizer |
| **0014** | political party president |
| **5123** | political reporter |
| **4011** | political science professor - university |
| **4169** | political scientist |
| **4169** | politicist |
| **1454** | poll clerk |
| **4164** | pollster |
| **2131** | pollution control engineer |
| **2263** | pollution control inspector |
| **2231** | pollution control technician |
| **6541** | polygraph examiner |
| **6541** | polygraph operator |
| **6541** | polygraphist |
| **2112** | polymer chemist |
| **2134** | polymer engineer |
| **9232** | polymerization kettle operator |
| **9232** | polymerization unit operator |
| **2211** | polymers tester |
| **3214** | polysomnographic technologist |
| **8211** | pond foreman/woman |
| **8616** | pondman/woman |
| **6722** | pony ride operator |
| **4167** | pool activities co-ordinator |
| **7205** | pool and patio contractor |
| **5254** | pool co-ordinator - recreation |
| **7441** | pool equipment installer |
| **5254** | pool lifeguard |
| **6722** | pool parlour attendant |
| **6316** | pool parlour supervisor |
| **7441** | pool service routeman/woman |
| **7441** | pool servicer |
| **5133** | pop singer |
| **9461** | popcorn candy maker |
| **9617** | popcorn maker - food and beverage processing |
| **6711** | popcorn vendor |

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| **2121** | population geneticist |
| **9611** | porcelain glazer - mineral products manufacturing |
| **9619** | porcelain products cleaner |
| **6331** | pork cutter - retail or wholesale |
| **9465** | pork grader |
| **8252** | pork production technician |
| **8252** | pork production technician apprentice |
| **0731** | port captain - water transport |
| **0714** | port director |
| **6721** | port redcap |
| **2154** | port surveyor |
| **7332** | portable appliance repairman/woman |
| **9414** | portable diamond drill and saw operator |
| **7332** | portable electric household appliance repairer |
| **9524** | portable electrical appliance assembler |
| **9437** | portable machine sander tender - woodworking |
| **9437** | portable sawer - woodworking |
| **7237** | portable spot welder |
| **1112** | portfolio manager |
| **5136** | portrait painter |
| **5221** | portrait photographer |
| **1121** | position classifier |
| **3215** | positron-emission tomography (PET) technologist |
| **8421** | post cutter |
| **7611** | post hole driller |
| **1511** | post office clerk |
| **0132** | post office manager |
| **0132** | postal area manager |
| **1512** | postal carrier |
| **1511** | postal clerk |
| **1214** | postal clerks supervisor |
| **1511** | postal counter clerk |
| **6541** | postal inspection officer |
| **1512** | postal service deliverer |
| **6541** | postal service inspector |
| **6411** | postal services commercial sales representative |
| **1511** | postal services wicket clerk |
| **1214** | postal station employees supervisor |
| **0132** | postal station superintendent |
| **1214** | postal station supervisor |
| **1511** | postal wicket clerk |
| **1512** | postal worker |
| **1214** | postal workers supervisor |
| **0132** | postal zone facilities manager |
| **0132** | postal zone manager |
| **4011** | postdoctoral fellow |
| **5241** | poster artist |
| **5223** | poster layout designer |
| **5223** | poster painter |
| **1512** | postman/woman |
| **1214** | postmaster/mistress |
| **3414** | post-mortem attendant |
| **5225** | postproduction technician |
| **0413** | post-secondary education director |
| **0413** | post-secondary education director - public administration |
| **4012** | post-secondary research assistant |
| **4012** | post-secondary teaching assistant |
| **4217** | postulant |
| **8262** | pot fisherman/woman |
| **9411** | pot liner - metal processing |
| **9211** | pot room foreman/woman - primary metal and mineral products processing |
| **9211** | pot room foreman/woman - primary metal processing |
| **9411** | pot tender - primary metal processing |
| **6711** | pot washer |
| **8231** | potash miner |
| **9461** | potato chip machine operator |
| **9617** | potato chip sorter |
| **0821** | potato farmer |
| **0821** | potato grower |
| **0821** | potato producer |
| **9617** | potato-peeling machine tender |
| **9611** | potlining mixer helper - primary metal processing |
| **5244** | potter |
| **9414** | pottery and porcelain chipper |
| **9414** | pottery and porcelain former - clay products |
| **9414** | pottery and porcelain grinder |
| **9414** | pottery and porcelain polisher |
| **9414** | pottery and porcelain presser |
| **9414** | pottery and porcelain sagger maker |
| **9414** | pottery and porcelain sander |
| **9414** | pottery and porcelain turner - clay products |
| **9414** | pottery and porcelain ware caster |
| **9415** | pottery and porcelain ware inspector |
| **5243** | pottery designer |
| **9414** | pottery dryer - clay products |
| **9414** | pottery model maker |
| **9414** | pottery mould maker |
| **9414** | pottery trimmer |
| **9461** | pouch line operator - food processing |
| **9462** | poultry boner |
| **0821** | poultry breeder |
| **0821** | poultry breeder - egg production |
| **9462** | poultry butcher - meat packing plant |
| **9617** | poultry cooler worker - food and beverage processing |
| **9462** | poultry dresser |
| **9213** | poultry eviscerating foreman/woman |
| **9462** | poultry eviscerator |
| **8252** | poultry farm foreman/woman |
| **8431** | poultry farm labourer |
| **0821** | poultry farm manager |
| **8431** | poultry farm worker |
| **8252** | poultry farm workers foreman/woman |
| **0821** | poultry farmer - egg production |
| **9465** | poultry grader |

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|---|---|
| 9213 | poultry graders foreman/woman |
| 9213 | poultry graders supervisor |
| 9462 | poultry hanger |
| 2222 | poultry inspector |
| 8252 | poultry operation supervisor |
| 9617 | poultry packager |
| 9462 | poultry plucker |
| 9462 | poultry plucker tender |
| 9462 | poultry preparer |
| 9213 | poultry preparers foreman/woman |
| 0821 | poultry producer |
| 2121 | poultry scientist |
| 9462 | poultry slaughterer - food and beverage processing |
| 2221 | poultry technician |
| 2221 | poultry technologist |
| 3114 | poultry veterinarian |
| 9462 | poultry worker - meat packing plant |
| 8431 | poultry yard cleaner |
| 8252 | poultry-hatching services contractor |
| 9537 | pouncer - hat manufacturing |
| 6563 | pound animal attendant |
| 6563 | pound attendant |
| 8262 | pound net fisherman/woman |
| 4423 | pound officer |
| 9411 | pourer - metal processing |
| 4164 | poverty researcher |
| 9421 | powder blender |
| 8614 | powder carrier - underground mining |
| 1522 | powder keeper |
| 9611 | powdered metal mixer - primary metal processing |
| 9611 | powdered metal salvager - primary metal processing |
| 9461 | powdered milk dryer operator |
| 8231 | powderman/woman - underground mining |
| 9416 | power brake operator - metal fabrication |
| 7533 | power cable ferry operator |
| 7612 | power cable system installer helper |
| 9241 | power control room operator - electrical power systems |
| 7371 | power crane operator |
| 7611 | power curber tender |
| 9241 | power dispatcher |
| 9241 | power dispatcher - electrical power systems |
| 9241 | power dispatcher - generating station |
| 7243 | power electrician |
| 9241 | power engineer |
| 9241 | power engineer apprentice |
| 9212 | power engineer foreman/woman |
| 2232 | power equipment design technician |
| 2132 | power generation engineer |
| 7521 | power grader operator |
| 9612 | power hammer helper - metal fabrication |
| 9416 | power hammer operator - metal forging |
| 9526 | power lawn mower assembler |
| 2271 | power line air patrol pilot |
| 7202 | power line and cable workers foreman/woman |
| 7244 | power line maintainer - electric power systems |
| 7202 | power line maintenance workers front line supervisor |
| 7244 | power line patroller |
| 7202 | power line repair foreman/woman |
| 7244 | power line repairer - electric power systems |
| 7202 | power line repairers foreman/woman |
| 7202 | power line service foreman/woman |
| 7202 | power line technician foreman/woman |
| 7244 | power lineman/woman |
| 7244 | power lineman/woman - electricity production and transmission |
| 7202 | power linemen/women and cable installers supervisor |
| 9442 | power loom weaver |
| 9521 | power plant assembler - aircraft assembly |
| 9212 | power plant chief substation operator |
| 2132 | power plant engineer |
| 9212 | power plant foreman/woman |
| 9521 | power plant installation mechanic - aircraft assembly |
| 9521 | power plant mechanic - aircraft assembly |
| 9241 | power plant operator |
| 9241 | power plant operator - electrical power systems |
| 9241 | power plant stationary engineer |
| 7522 | power pole inspector |
| 9416 | power press operator |
| 9416 | power press operator - metal fabrication |
| 9416 | power press operator - metal products manufacturing |
| 9416 | power press set-up operator - metal fabrication |
| 9241 | power reactor operator - electrical power systems |
| 9437 | power saw operator - woodworking |
| 9537 | power screwdriver operator |
| 9416 | power shear operator - metal fabrication |
| 9416 | power shear tender - metal fabrication |
| 7312 | power shovel mechanic |
| 7521 | power shovel operator |
| 7611 | power shovel operator helper |
| 9526 | power snowblower assembler |
| 7243 | power station electrician |
| 7243 | power station electrician - electrical power system |
| 9241 | power station operator - electrical power systems |
| 9212 | power station operators foreman/woman |
| 9212 | power station shift supervisor |
| 9212 | power station supervisor |
| 9241 | power substation operator |
| 7522 | power sweeper operator - public works |
| 9232 | power switchboard operator - chemical |

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| **9241** | power switchboard operator - electrical power systems |
| **9241** | power switchboard operator apprentice - electrical power systems |
| **7243** | power system electrician |
| **7202** | power system electrician foreman/woman |
| **7202** | power system electricians supervisor |
| **9241** | power system operator |
| **9241** | power system operator - offshore drilling |
| **7202** | power systems electricians supervisor |
| **7332** | power tool repairer |
| **9525** | power transformer assembler |
| **9525** | power transformer core builder |
| **7333** | power transformer repairer |
| **7333** | power transformer repairman/woman |
| **9226** | power transmission assembly foreman/woman |
| **7452** | power truck driver - material handling |
| **7612** | powered-machine or towed-machine repairer helper - construction |
| **7243** | powerhouse electrician - electrical power system |
| **7612** | powerhouse electrician helper |
| **9613** | powerhouse helper |
| **7311** | powerhouse machinery mechanic |
| **7612** | powerhouse mechanical repairer helper |
| **7612** | powerhouse oiler |
| **9241** | powerhouse operator |
| **7244** | powerline technician |
| **8412** | power-tong operator |
| **4031** | practical and applied arts teacher |
| **8262** | prawn fisherman/woman |
| **4154** | preacher |
| **6541** | preboarding security guard |
| **7611** | precast concrete caulker |
| **7236** | precast concrete erector |
| **7282** | precast concrete finisher |
| **9414** | precast concrete moulder |
| **9414** | precast concrete slab maker |
| **9211** | precast concrete working foreman/woman |
| **9414** | precast terrazzo maker |
| **2212** | precious metal assayer |
| **9411** | precious metal recoverer |
| **0431** | precious metals theft inspector - police |
| **6344** | precious stone setter |
| **9611** | precipitator helper - primary metal processing |
| **9421** | precipitator operator - chemical processing |
| **9411** | precipitator tender - primary metal processing |
| **9417** | precision grinder operator - metal machining |
| **9417** | precision grinder set-up operator |
| **9417** | precision grinder set-up operator - metal machining |
| **9417** | precision honing machine operator - metal machining |
| **9227** | precision instrument and related equipment assembly foreman/woman |
| **9523** | precision instrument assembler - electronic equipment manufacturing |
| **9537** | precision instrument assembly inspector |
| **7201** | precision instrument machine shop foreman/woman |
| **2243** | precision instrument mechanic |
| **2244** | precision instrument technician - avionics |
| **9417** | precision lapper - metal machining |
| **9417** | precision lathe operator - metal machining |
| **9537** | precision lens edger - non-prescription |
| **9537** | precision lens grinder - non-prescription |
| **9537** | precision lens polisher - non-prescription |
| **7231** | precision machinist |
| **7233** | precision sheet metal fabricator |
| **7233** | precision sheet metal mechanic |
| **7233** | precision sheet metal worker |
| **2131** | precision survey engineer |
| **7232** | precision tool maker |
| **7237** | precision welder |
| **8422** | precommercial tree thinner |
| **9461** | precooked sausage maker |
| **9227** | prefab house assembly foreman/woman |
| **9533** | prefab housing assembler |
| **9227** | prefab housing assembler foreman/woman |
| **9533** | prefab housing assembler, wood |
| **9227** | prefab housing assembly foreman/woman |
| **7271** | prefabricated house carpenter |
| **9533** | prefabricated housing assembler |
| **9227** | prefabricated joinery assemblers foreman/woman - wood products manufacturing |
| **9227** | prefabricated joinery assembly foreman/woman - wood products manufacturing |
| **9227** | prefabricated joinery assembly supervisor |
| **7271** | prefabricated structure carpenter |
| **7315** | preflight mechanic |
| **9472** | pre-flight operator - printing |
| **9422** | preform machine tender - plastic manufacturing |
| **7611** | preheater tender - pipelines |
| **1221** | preliminary press planner |
| **0011** | premier |
| **4168** | Premier's Office officer (provincial government) |
| **1434** | premium rater - insurance |
| **9536** | prep line attendant - bulk galvanizing |
| **9217** | preparation department foreman/woman - textiles |
| **6345** | preparation upholsterer |
| **5212** | preparator |
| **7303** | preparatory supervisor - printing |
| **9441** | prepared hide and pelt dresser |
| **1221** | prepress planner - publishing |
| **7303** | prepress supervisor - printing |

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| **9472** | prepress technician |
| **7303** | prepress workers supervisor |
| **9472** | preprint-coating machine tender |
| **1423** | preproduction operator |
| **4153** | preretirement counsellor |
| **4154** | presbyter |
| **4214** | preschool helper |
| **4214** | preschool supervisor |
| **5226** | presentation co-ordinator - broadcasting |
| **9447** | preshrinking process tester - textiles |
| **0013** | president - financial, communications and other business services |
| **0016** | president - goods production, utilities, transportation and construction |
| **0012** | president - government services |
| **0014** | president - health, education, social and community services and membership organizations |
| **0015** | president - trade, broadcasting and other services |
| **0013** | president and chief executive officer - financial, communications and other business services |
| **0015** | president and director - trade, broadcasting and other services |
| **0014** | president and general manager - health, education, social and community services and membership organizations |
| **0015** | president and general manager - trade, broadcasting and other services |
| **5253** | presiding steward - racetrack |
| **1123** | press agent |
| **9619** | press assistant, reel replacer |
| **9416** | press brake operator |
| **9416** | press brake operator - metal products manufacturing |
| **1452** | press clipper |
| **9619** | press helper - printing |
| **9423** | press line operator - rubber products manufacturing |
| **9527** | press operator - electrical equipment manufacturing |
| **9461** | press operator - food and beverage processing |
| **9422** | press operator - plastic manufacturing |
| **7381** | press operator - printing |
| **9423** | press operator - rubber products manufacturing |
| **9461** | press operator - tobacco processing |
| **9537** | press operator, skates |
| **9619** | press paper feeder - printing |
| **1452** | press reader |
| **5123** | press reporter |
| **1123** | press secretary |
| **7303** | press supervisor - printing |
| **9527** | press tender - electrical equipment manufacturing |
| **9416** | press tender - pierce and shave |
| **9537** | press tender, pellets - explosives manufacturing |
| **9461** | presser - food and beverage processing |
| **6741** | presser - laundry and dry cleaning |
| **9423** | presser - rubber products manufacturing |
| **9441** | presser and threader - textile manufacturing |
| **9423** | presser, rubber flaps |
| **9441** | presser-threader - textile manufacturing |
| **9619** | pressing machine feeder - garment manufacturing |
| **6741** | pressing machine tender - laundry and dry cleaning |
| **7381** | pressman/woman - printing |
| **9423** | pressman/woman, moulding - rubber products manufacturing |
| **9433** | pressman/woman, pulp - pulp and paper |
| **9619** | pressroom floor attendant - printing |
| **7303** | pressroom foreman/woman - printing |
| **7303** | pressroom supervisor - printing |
| **9615** | pressroom worker, tires and inner tubes - rubber products manufacturing |
| **9521** | pressure compartment sealer and tester - aircraft assembly |
| **7445** | pressure control calibrator |
| **9461** | pressure cooker operator - food and beverage processing |
| **9537** | pressure switch inspector |
| **9537** | pressure switch tester |
| **2261** | pressure tank tester |
| **7234** | pressure vessel boilermaker |
| **7234** | pressure vessel fabricator |
| **2261** | pressure vessel tester |
| **7237** | pressure vessel welder |
| **9422** | pressure-sensitive coater operator - plastic manufacturing |
| **9461** | pressurized container filler - food and beverage processing |
| **5232** | prestidigitator |
| **2264** | pre-stressed concrete inspector |
| **9461** | pretzel baker - food and beverage processing |
| **2263** | prevention officer - occupational health and safety |
| **3411** | preventive dental assistant |
| **7311** | preventive maintenance mechanic technician |
| **3111** | preventive medicine physician |
| **3111** | preventive medicine specialist |
| **3114** | preventive medicine veterinarian |
| **6622** | price checker - grocery store |
| **6622** | price clerk - retail |
| **4162** | price economist |
| **6552** | price information clerk |
| **1211** | price information clerks supervisor |
| **1122** | price management analyst |
| **6622** | price marker - supermarket |
| **6211** | price marker supervisor - retail |

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| **4154** | priest |
| **3012** | primary care nurse |
| **3234** | primary care paramedic |
| **3112** | primary care physician |
| **6221** | primary grain elevator agent |
| **6221** | primary grain elevator manager |
| **6221** | primary grain elevator operator |
| **3124** | primary health care nurse practitioner |
| **9211** | primary metal and mineral products processing foreman/woman |
| **9211** | primary metal and mineral products processing supervisor |
| **9611** | primary metal processing labourer |
| **3012** | primary nurse |
| **4032** | primary school teacher |
| **0011** | prime minister |
| **4168** | Prime Minister's Office officer (federal government) |
| **9536** | primer sprayer |
| **9537** | primer-inserting machine tender |
| **0422** | principal |
| **0414** | principal clerk of legislative committees |
| **0414** | Principal Clerk of the House of Commons |
| **0414** | Principal Clerk of the Legislative Assembly |
| **2234** | principal estimator - construction |
| **9536** | print applier - production |
| **9421** | print colour mixer |
| **9474** | print developer |
| **9474** | print finisher - photographic processing |
| **9474** | print inspector - photographic processing |
| **9474** | print retoucher - photographic processing |
| **9472** | print roller repairer |
| **9474** | print tender - photographic processing |
| **9472** | print transferrer - printing |
| **9523** | printed circuit board (PCB) assembler |
| **9523** | printed circuit board (PCB) assembly inspector |
| **9523** | printed circuit board (PCB) assembly machine operator |
| **9523** | printed circuit board (PCB) assembly machine operator - electronic equipment manufacturing |
| **9523** | printed circuit board (PCB) etcher |
| **9222** | printed circuit board (PCB) fabrication foreman/woman - electronic equipment manufacturing |
| **9523** | printed circuit board (PCB) fabrication inspector |
| **9523** | printed circuit board (PCB) fabrication machine operator |
| **9222** | printed circuit board (PCB) fabrication supervisor - electronic equipment manufacturing |
| **9523** | printed circuit board (PCB) in-circuit machine -and repairing-machine operator |
| **9523** | printed circuit board (PCB) in-circuit test machine and repair operator |

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| **9523** | printed circuit board (PCB) inspector |
| **9523** | printed circuit board (PCB) inspector and tester - electronic equipment manufacturing |
| **7381** | printer |
| **9471** | printer operator - printing |
| **7301** | printer repairers foreman/woman |
| **7303** | printers foreman/woman |
| **7303** | printers supervisor |
| **9471** | printer-slotter operator |
| **9471** | printer-slotter tender |
| **9472** | printing cylinder engraver |
| **9226** | printing equipment assembly foreman/woman |
| **7301** | printing machine mechanics foreman/woman |
| **9471** | printing machine operator - printing |
| **9441** | printing machine operator - textile manufacturing |
| **7301** | printing machine repair foreman/woman |
| **7301** | printing machine repairers foreman/woman |
| **7311** | printing machinery mechanic |
| **6221** | printing machinery sales representative |
| **0911** | printing manager |
| **9441** | printing operator - textile manufacturing |
| **0911** | printing plant manager |
| **9472** | printing plate engraver |
| **9472** | printing plate moulder |
| **9472** | printing plate presensitizer tender |
| **1524** | printing plates order clerk |
| **7301** | printing press and machine mechanics foreman/woman |
| **7381** | printing press assistant operator |
| **9619** | printing press feeder |
| **7231** | printing press machinist |
| **7381** | printing press operator |
| **7303** | printing press operators supervisor |
| **9422** | printing roller moulder - plastic manufacturing |
| **6411** | printing services sales representative |
| **7303** | printing shop foreman/woman |
| **7303** | printing supervisor |
| **6221** | printing supplies salesperson |
| **7381** | printing technologist |
| **4021** | printing technology teacher - CEGEP |
| **9417** | printing-roller finisher |
| **9417** | printing-roller grinder |
| **9417** | printing-roller polisher |
| **5136** | printmaker - visual arts |
| **5136** | printmaking teacher |
| **1512** | priority post carrier |
| **9537** | prism maker |
| **9537** | prism maker operator |
| **4422** | prison guard |
| **4422** | prison officer |
| **0423** | prison warden |
| **1221** | privacy officer |
| **4313** | private |
| **4421** | private bailiff |

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| **7246** | private branch exchange (PBX) and private automatic branch exchange (PABX) inspector - telecommunications |
| **7246** | private branch exchange (PBX) and private automatic branch exchange (PABX) installer - telecommunications |
| **7246** | private branch exchange (PBX) and private automatic branch exchange (PABX) installer and repairer - telecommunications |
| **7246** | private branch exchange (PBX) and private automatic branch exchange (PABX) repairer - telecommunications |
| **7246** | private branch exchange (PBX) inspector - telecommunications |
| **7246** | private branch exchange (PBX) installer |
| **7246** | private branch exchange (PBX) installer - telecommunications |
| **7246** | private branch exchange (PBX) repairer - telecommunications |
| **3012** | private care nurse |
| **7513** | private chauffeur |
| **6541** | private detective |
| **3012** | private duty nurse |
| **7513** | private household chauffeur |
| **0125** | private investigation and security service manager |
| **6541** | private investigator |
| **6541** | private investigators supervisor |
| **2122** | private lands forester |
| **6541** | private police agents and investigators supervisor |
| **6541** | private policemen/women and investigators supervisor |
| **3132** | private practice dietitian |
| **0422** | private primary college principal |
| **4313** | private recruit |
| **0422** | private school headmaster/mistress |
| **0422** | private school principal |
| **1241** | private secretary |
| **6541** | private security officer |
| **4031** | private teacher - secondary school |
| **0421** | private vocational school director |
| **4168** | Privy Council Office officer |
| **5251** | prize fighter |
| **4111** | probate court judge |
| **4155** | probation and parole officer |
| **4155** | probation officer |
| **9411** | process assistant - zinc pressure leach |
| **9472** | process camera operator |
| **9461** | process cheese cooker |
| **9461** | process cheese formulator |
| **9465** | process control checker - food and beverage processing |
| **2112** | process control chemist |
| **2243** | process control equipment mechanic |
| **2243** | process control equipment repairer |
| **2243** | process control equipment service technician |
| **9461** | process control operator - food and beverage processing |
| **9232** | process control system operator |
| **9523** | process inspector - electronic equipment manufacturing |
| **2133** | process instrumentation engineer |
| **9461** | process operator - food and beverage processing |
| **9231** | process operator - primary metal and mineral products processing |
| **9231** | process operator - zinc pressure leach |
| **2253** | process piping draftsperson |
| **4421** | process server |
| **9232** | process technician - chemical processing |
| **9523** | process technician - electronic equipment manufacturing |
| **9523** | process tester - electronic equipment manufacturing |
| **9433** | processed paper rewinder |
| **1423** | processing and output compositor |
| **7301** | processing and packaging equipment maintenance foreman/woman |
| **7301** | processing and packaging equipment maintenance supervisor |
| **9619** | processing equipment cleaner |
| **9232** | processing laboratory operator |
| **9232** | processing operator - chemical processing |
| **7311** | processing plant mechanic |
| **9524** | process-inspector and tester - electrical equipment manufacturing |
| **9472** | processor - printing |
| **3111** | proctologist |
| **1524** | procurement clerk |
| **0113** | procurement director |
| **0113** | procurement manager |
| **1225** | procurement officer |
| **0113** | procurement operations director |
| **6222** | produce buyer |
| **6622** | produce clerk |
| **6211** | produce department supervisor |
| **9465** | produce grader - food and beverage processing |
| **2222** | produce inspector |
| **0621** | produce manager - retail |
| **1521** | produce shipper |
| **5131** | producer - performing arts |
| **5131** | producer-director |
| **2252** | product designer |
| **9532** | product inspector - furniture manufacturing |
| **9536** | product lacquer-sprayer |
| **0601** | product manager |
| **1123** | product manager - marketing |
| **9619** | product marker |
| **9536** | product painter |
| **9536** | product spray painter |
| **9536** | product stainer |
| **9536** | product surface preparer and prefinisher |

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| **9465** | product tester - food and beverage processing |
| **9537** | product trimmer |
| **1111** | production accountant |
| **1523** | production agent |
| **2233** | production and quality control technologist |
| **9524** | production assembler - electrical equipment manufacturing |
| **5227** | production assistant |
| **5227** | production assistant - motion pictures and broadcasting |
| **9417** | production borer - metal machining |
| **9417** | production boring machine operator - metal machining |
| **9417** | production broaching machine operator - metal machining |
| **9417** | production broaching machine tender - metal machining |
| **9536** | production brush painter |
| **2134** | production chemical engineer |
| **0911** | production chief |
| **1523** | production clerk |
| **1215** | production clerks supervisor |
| **9536** | production coating machine operator |
| **1523** | production control clerk |
| **0132** | production control manager - postal service |
| **2233** | production control technologist |
| **1523** | production controller |
| **1523** | production co-ordinator |
| **5226** | production co-ordinator - motion pictures, broadcasting and performing arts |
| **5226** | production co-ordinator - radiobroadcasting |
| **5226** | production co-ordinator - video games |
| **5226** | production co-ordinator - visual effects |
| **9615** | production day labourer - tire industry |
| **5131** | production designer - motion pictures, broadcasting and performing arts |
| **5131** | production director - motion picture |
| **8231** | production driller |
| **5122** | production editor |
| **9536** | production electroplater |
| **2141** | production engineer |
| **0211** | production engineering manager |
| **7316** | production equipment fitter |
| **7301** | production equipment maintenance mechanic supervisor |
| **1312** | production examiner |
| **1523** | production expediter |
| **9222** | production foreman/woman - electronics manufacturing |
| **9217** | production foreman/woman - fabric, fur and leather products manufacturing |
| **9217** | production foreman/woman - fur products manufacturing |
| **8221** | production foreman/woman - mining and quarrying |
| **9417** | production gear cutter |
| **0016** | production general manager - goods production, utilities, transportation and construction |
| **9417** | production grinder - metal machining |
| **9417** | production grinder operator - metal machining |
| **0911** | production head |
| **9617** | production helper |
| **9617** | production helper - food and beverage processing |
| **9612** | production helper - metal coating |
| **9611** | production helper - primary metal and mineral products processing |
| **7237** | production induction brazier |
| **9617** | production labourer - food processing |
| **9417** | production lapping machine operator |
| **9417** | production lapping machine tender |
| **9417** | production lathe operator - metal machining |
| **9527** | production line battery repairer - electrical equipment manufacturing |
| **9221** | production line foreman/woman - motor vehicle manufacturing |
| **9527** | production line setter and servicer - electrical equipment manufacturing |
| **7237** | production line solderer |
| **7237** | production line spot welder |
| **9527** | production line storage battery repairer - electrical equipment manufacturing |
| **7237** | production line welder |
| **8231** | production loader operator |
| **9527** | production machine operator - electrical equipment manufacturing |
| **9422** | production machine operator, plastic bags |
| **9527** | production machine set-up operator - electrical appliance and equipment manufacturing |
| **7201** | production machine shop foreman/woman |
| **9417** | production machine tool operator |
| **7301** | production machinery maintenance foreman/woman |
| **7311** | production machinery maintenance mechanic |
| **7301** | production machinery maintenance mechanic supervisor |
| **7301** | production machinery maintenance mechanics foreman/woman |
| **7311** | production machinery mechanic |
| **0811** | production manager - coal mining |
| **0911** | production manager - manufacturing |
| **0911** | production manager - printing |
| **0131** | production manager - telecommunications |
| **1523** | production material estimator |
| **7311** | production mechanic |
| **9417** | production metal grinder operator |
| **9417** | production milling machine operator - metal machining |
| **8231** | production miner |

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| **9417** | production multiple-spindle screw machine set-up operator |
| **1523** | production officer |
| **0911** | production operations manager |
| **9232** | production operator - chemical processing |
| **9523** | production operator - electronic equipment manufacturing |
| **9522** | production operator - motor vehicle manufacturing |
| **9423** | production operator - rubber products manufacturing |
| **9522** | production operator, trim and final - motor vehicle manufacturing |
| **9536** | production painter |
| **9619** | production painter helper |
| **9536** | production painter-finisher |
| **0911** | production planner |
| **1215** | production planning clerks supervisor |
| **0911** | production planning co-ordinator |
| **0911** | production planning manager |
| **2233** | production planning technician |
| **1523** | production scheduler |
| **0911** | production senior co-ordinator |
| **5225** | production sound recordist |
| **7237** | production spot welder |
| **0911** | production superintendent |
| **9222** | production supervisor - electronics manufacturing |
| **9213** | production supervisor - food and beverage processing |
| **8211** | production supervisor - logging |
| **7201** | production supervisor - machine shop |
| **7303** | production supervisor - printing |
| **2241** | production support technician - electronics manufacturing |
| **5224** | production switcher |
| **5226** | production technician - motion pictures, broadcasting and performing arts |
| **2211** | production technician - pharmaceuticals |
| **2233** | production technologist - sawmill |
| **9523** | production tester - electronic equipment manufacturing |
| **8232** | production testing operator - oil and gas well drilling |
| **7311** | production tooling maintenance mechanic |
| **7311** | production tooling mechanic |
| **9536** | production touch-up painter |
| **8412** | production tubing operator - oil field services |
| **6345** | production upholsterer |
| **9619** | production weigher |
| **7237** | production welder |
| **9532** | production worker - furniture manufacturing |
| **9533** | production worker, wooden manufactured homes |
| **9533** | production worker, wooden manufactured housing |
| **9533** | production worker, wooden prefabricated housing |
| **1225** | products administrator |
| **2123** | professional agrologist (P.Ag.) |
| **0014** | professional association executive director |
| **5251** | professional athlete |
| **5252** | professional athletes team coach |
| **0513** | professional athletes team manager |
| **5251** | professional boxer |
| **0411** | professional development and employment district director - government services |
| **0411** | professional development director - government services |
| **3132** | professional dietitian (P.Dt.) |
| **2234** | professional estimator - construction |
| **0513** | professional football team manager |
| **2122** | professional forester |
| **5254** | professional golf instructor |
| **0513** | professional hockey team manager |
| **6561** | professional image consultant |
| **2154** | professional land surveyor |
| **3132** | professional nutritionist |
| **5251** | professional pool player |
| **2234** | professional quantity surveyor |
| **0125** | professional services manager - business services |
| **0513** | professional sport team general manager |
| **0513** | professional sport team manager |
| **0015** | professional sports club chief financial officer (CFO) |
| **5252** | professional sports scout |
| **5252** | professional sports team coach |
| **5251** | professional sportsman/woman |
| **5252** | professional team coach |
| **5254** | professional tennis instructor |
| **0513** | professional track and field team general manager |
| **0513** | professional track and field team manager |
| **4021** | professional training instructor |
| **4011** | professor emeritus - university |
| **4011** | professor of computer science - university |
| **4011** | professor of medicine - university |
| **9422** | profile extrusion operator |
| **9422** | profile extrusion processing operator |
| **9422** | profile extrusion set-up operator |
| **9417** | profile milling machine operator - metal machining |
| **9417** | profile milling machine set-up operator |
| **9537** | profile saw operator - jewellery |
| **9437** | profile shaper operator - woodworking |
| **9537** | profile trimmer - jewellery |
| **9446** | profile-pocket sewing machine operator |
| **9417** | profiling machine operator - metal machining |
| **9417** | profiling machine set-up operator |
| **1411** | program and service delivery clerk - government services |
| **4413** | program assistant - education |

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| **5226** | program co-ordinator - broadcasting |
| **4166** | program co-ordinator - education |
| **4161** | program co-ordinator - environmental organization |
| **0421** | program co-ordinator - post-secondary education |
| **4167** | program co-ordinator, recreation |
| **4163** | program delivery officer - business development |
| **0413** | program development and educational planning director - public administration |
| **4166** | program development specialist - college |
| **5131** | program director - broadcasting |
| **0512** | program general manager - broadcasting |
| **4163** | program officer - international development agency |
| **5123** | program researcher - radio or television |
| **0413** | program services director - education |
| **4167** | program supervisor - sports and leisure |
| **5121** | programmed-instruction writer |
| **2174** | programmer analyst |
| **2233** | programmer, CAD/CAM (computer-assisted design/computer-assisted manufacturing) |
| **2233** | programmer, computer-aided design/computer-aided manufacturing, numerical control (CAD/CAM NC) |
| **0512** | programming director - broadcasting |
| **0512** | programming director - television |
| **5226** | programming manager |
| **0413** | programs evaluation assistant director - education |
| **7232** | progressive die fitter |
| **1111** | project accountant |
| **1221** | project administration officer |
| **2122** | project forester |
| **0212** | project management chief - scientific affairs |
| **1221** | project manager - non-technical |
| **2132** | project mechanical engineer |
| **5227** | projectionist |
| **9537** | projector assembler |
| **1123** | promotion strategies consultant |
| **6623** | promotions demonstator |
| **0124** | promotions manager |
| **5227** | prompter |
| **1434** | proof clerk - financial sector |
| **7381** | proof press operator |
| **7381** | proof press operator - printing |
| **7381** | proof pressman/woman - printing |
| **6551** | proof teller - bank |
| **7381** | proofer - printing |
| **7381** | proofing hand - printing |
| **7381** | proofing press operator |
| **9472** | proofmaker |
| **9472** | proofmaker - printing |
| **1452** | proofreader |
| **1452** | proofreader copy-reader |
| **9471** | proofsheet approver - printing |
| **6621** | propane gas attendant |
| **6621** | propane gas pump attendant |
| **6621** | propane refueler |
| **6621** | propane tank attendant |
| **9232** | propellant blender |
| **7231** | propeller inspector - machining |
| **9521** | propeller mechanic - aircraft assembly |
| **7301** | propeller repair foreman/woman |
| **5226** | properties custodian - stage productions or motion pictures |
| **1111** | property accountant |
| **1224** | property acquisitions area manager |
| **1312** | property adjuster - insurance |
| **1224** | property administrator |
| **1434** | property and equipment insurance clerk |
| **1314** | property appraiser |
| **1314** | property assessor |
| **1434** | property clerk |
| **1224** | property leasing co-ordinator |
| **1224** | property management agent |
| **1224** | property management officer |
| **1224** | property management operations co-ordinator |
| **0714** | property manager |
| **5226** | property master - broadcasting |
| **5226** | property master - motion pictures, broadcasting and performing arts |
| **4211** | property paralegal |
| **5227** | property person |
| **1224** | property rental agent |
| **1224** | property rental co-ordinator |
| **1224** | property rentals manager |
| **1224** | property section head |
| **4423** | property standards inspector |
| **2154** | property surveyor |
| **1313** | property underwriter |
| **1313** | property underwriter - insurance |
| **4423** | property use inspector |
| **1314** | property valuator |
| **5227** | props handler |
| **5227** | props person |
| **2146** | propulsion engineer - aerospace vehicles |
| **7315** | propulsion technician |
| **4112** | prosecuting attorney |
| **4112** | prosecutor |
| **2113** | prospecting geologist |
| **2212** | prospector |
| **3219** | prosthetic aide |
| **3219** | prosthetic assistant |
| **3219** | prosthetic technician |
| **3219** | prosthetic-orthotic technician |
| **3219** | prosthetist |
| **3219** | prosthetist assistant |
| **3219** | prosthetist-orthotist |
| **3113** | prosthodontist |
| **2223** | protection co-ordinator - forestry |

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|---|---|
| 0411 | protection services director - government services |
| 2241 | protection technologist - electrical power system |
| 2112 | protective coatings chemist |
| 9537 | protective earmuffs assembler |
| 2133 | protective relay engineer |
| 0013 | protective services executive director |
| 1525 | protective signal operator |
| 7612 | protective signal servicer helper |
| 2112 | protein chemist |
| 1227 | prothonotary |
| 4168 | protocol officer |
| 4168 | protocol officer - government services |
| 7231 | prototype machinist |
| 2121 | protozoologist |
| 2121 | protozoology biologist |
| 1416 | provincial court clerk |
| 4111 | provincial court judge |
| 4111 | provincial court of appeal justice |
| 2154 | provincial land surveyor |
| 4111 | provincial supreme court justice |
| 5252 | provincial team coach |
| 0421 | provost - university |
| 3413 | psychiatric aide |
| 3012 | psychiatric and mental health nurse |
| 3012 | psychiatric nurse |
| 3011 | psychiatric nursing supervisor |
| 4152 | psychiatric social worker |
| 3111 | psychiatrist |
| 4011 | psychiatry professor - university |
| 6564 | psychic |
| 6564 | psychic consultant |
| 6564 | psychic reader |
| 4153 | psychoeducational consultant |
| 4153 | psychoeducator |
| 4169 | psycholinguist |
| 4212 | psychological assistant |
| 4151 | psychological associate |
| 0423 | psychological services director |
| 4151 | psychologist |
| 4151 | psychologist - counselling |
| 4164 | psychology assistant (except university) |
| 0311 | psychology director - health care |
| 4011 | psychology professor - university |
| 1254 | psychology research assistant (except university) |
| 4169 | psychometrician |
| 4169 | psychometrist |
| 3111 | psychopharmacologist |
| 4151 | psychotherapist |
| 3237 | PTA (physical therapist assistant) |
| 1111 | public accountant |
| 1111 | public accountants chief |
| 1111 | public accountants supervisor |
| 5225 | public address (P.A.) operator |
| 5231 | public address (P.A.) system announcer |
| 2242 | public address (P.A.) system installer and repairer |
| 5225 | public address (P.A.) system operator |
| 1312 | public adjuster - insurance |
| 4011 | public administration professor - university |
| 0411 | public administrator - government services |
| 0124 | public affairs director |
| 1123 | public affairs officer |
| 3012 | public and community health nurse |
| 4164 | public assistance adviser |
| 2121 | public health bacteriologist |
| 3113 | public health dentist |
| 3132 | public health dietitian |
| 0411 | public health director |
| 2131 | public health engineer |
| 2263 | public health inspector |
| 2263 | public health inspectors supervisor |
| 0411 | public health municipal officer - government services |
| 3012 | public health nurse |
| 3012 | public health nurse consultant |
| 0411 | public health nursing educational director - government services |
| 0311 | public health nursing services director |
| 3011 | public health nursing supervisor |
| 3132 | public health nutritionist |
| 3112 | public health physician |
| 4011 | public health professor - university |
| 2263 | public health safety inspector |
| 2161 | public health statistician |
| 2263 | public health unit supervisor |
| 4164 | public housing officer |
| 4164 | public housing policy analyst |
| 6561 | public image consultant - personal consultants |
| 0124 | public information director |
| 4168 | public inquiries officer |
| 1313 | public liability underwriter - insurance |
| 1513 | public notice delivery person - courier service |
| 1454 | public opinion collector |
| 1454 | public opinion interviewer |
| 1213 | public opinion interviewers supervisor |
| 4164 | public opinion survey researcher |
| 7512 | public passenger transit driver |
| 1123 | public relations agent |
| 6552 | public relations clerk |
| 1123 | public relations consultant |
| 1123 | public relations co-ordinator |
| 0124 | public relations director |
| 0124 | public relations manager |
| 1123 | public relations officer |
| 1123 | public relations practitioner |
| 1123 | public relations press agent |
| 1123 | public relations press secretary |
| 1123 | public relations representative |
| 1123 | public relations specialist |

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|---|---|
| **4164** | public rights co-ordinator |
| **6561** | public speaking consultant |
| **1221** | public trustee |
| **0912** | public utilities manager |
| **0423** | public welfare director |
| **0414** | public works director |
| **2131** | public works engineer |
| **8255** | public works grounds maintenance labourer supervisor |
| **8255** | public works grounds maintenance worker supervisor |
| **2264** | public works inspector - construction |
| **7621** | public works labourer |
| **7522** | public works maintenance equipment operator |
| **7302** | public works maintenance equipment operators supervisor |
| **7302** | public works road maintenance labourer supervisor |
| **0414** | public works superintendent |
| **1452** | publication clerk |
| **1213** | publication clerks supervisor |
| **6411** | publication distributor - wholesale |
| **6411** | publication sales representative - wholesale |
| **5122** | publications editor |
| **0512** | publications manager |
| **1123** | publicist |
| **0124** | publicity administrator |
| **1123** | publicity agent |
| **1123** | publicity co-ordinator |
| **0124** | publicity director |
| **1123** | publicity information officer |
| **0124** | publicity manager |
| **5121** | publicity writer |
| **4021** | public-speaking instructor |
| **4021** | public-speaking teacher |
| **0016** | publisher |
| **6411** | publisher's sales representative - wholesale |
| **1452** | publishing clerk |
| **0512** | publishing house director |
| **0016** | publishing house general manager |
| **0512** | publishing manager |
| **9461** | puff gun operator - food and beverage processing |
| **9461** | puffed cereal maker |
| **9414** | pug mill operator - clay products |
| **4111** | puisne judge |
| **9423** | puller-laster - rubber products manufacturing |
| **7362** | pullman conductor |
| **3111** | pulmonary disease specialist |
| **3214** | pulmonary function technologist |
| **3111** | pulmonary medicine physician |
| **3111** | pulmonary medicine specialist |
| **3111** | pulmonologist |
| **2134** | pulp and paper engineer |
| **2134** | pulp and paper engineer, chemical |
| **9614** | pulp and paper labourer |
| **7316** | pulp and paper machinery builder |
| **2233** | pulp and paper manufacturing technologist |
| **9215** | pulp and paper mill foreman/woman |
| **0911** | pulp and paper mill manager |
| **6411** | pulp and paper product sales representative |
| **9432** | pulp and paper size maker |
| **2233** | pulp and paper technician |
| **2233** | pulp and paper technologist |
| **9432** | pulp baler - pulp and paper |
| **9432** | pulp bleach liquor maker |
| **9432** | pulp cook |
| **9432** | pulp dryer operator |
| **9432** | pulp grader |
| **9432** | pulp maker |
| **9432** | pulp mill equipment operator |
| **9215** | pulp mill foreman/woman |
| **9432** | pulp mill machine operator |
| **9433** | pulp press tender |
| **9215** | pulp processing foreman/woman - pulp and paper |
| **9432** | pulp refiner operator - pulp and paper |
| **9432** | pulp tester - pulp and paper |
| **9215** | pulp testers foreman/woman |
| **9432** | pulp washer |
| **9432** | pulp washer operator - pulp and paper |
| **9461** | pulper tender - food and beverage processing |
| **9235** | pulping control operator |
| **9215** | pulping foreman/woman - pulp and paper |
| **9235** | pulping group operator - pulp and paper |
| **9235** | pulping technician |
| **9614** | pulp-log recleaner |
| **9414** | pulpstone builder |
| **9614** | pulp-washer helper |
| **1225** | pulpwood buyer |
| **8421** | pulpwood cutter |
| **8241** | pulpwood harvester operator |
| **8616** | pulpwood piler |
| **9432** | pulpwood products tester |
| **9421** | pulverizer and sifter tender - chemical processing |
| **9421** | pulverizing and sifting equipment tender - chemical processing |
| **7521** | pulvimixer operator |
| **6411** | pump and compressor sales representative - wholesale |
| **6621** | pump attendant - service station |
| **7311** | pump mechanic and repairer |
| **6621** | pump operator - service station |
| **7532** | pump seaman/woman |
| **9232** | pump station operator - pipelines |
| **9243** | pump station operator - water treatment |
| **7311** | pump systems installer |
| **8412** | pumper operator - oil field services |
| **9243** | pumphouse operator - water treatment |
| **9212** | pumping and blending foreman/woman - chemical processing |

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| **9212** | pumping and pipeline equipment operators foreman/woman |
| **9212** | pumping station foreman/woman |
| **9232** | pumping station operator |
| **7612** | pump-installer and repairer helper |
| **8412** | pumpman/woman - oil field services |
| **7532** | pumpman/woman - ships |
| **9416** | punch and shear machine operator - metal fabrication |
| **9612** | punch press helper - metal products manufacturing |
| **9416** | punch press operator |
| **9416** | punch press operator - metal fabrication |
| **9423** | punch press operator - rubber products manufacturing |
| **9416** | punch press setter - metalworking |
| **9416** | puncher and shearer - metal products manufacturing |
| **5232** | puppeteer |
| **1524** | purchase order clerk |
| **1225** | purchaser |
| **1225** | purchasing agent |
| **1215** | purchasing and inventory management co-ordinator |
| **0113** | purchasing chief |
| **1524** | purchasing clerk |
| **1524** | purchasing clerk assistant |
| **1215** | purchasing clerks supervisor |
| **1225** | purchasing contracts administrator |
| **1225** | purchasing contracts analyst |
| **0113** | purchasing contracts director |
| **1225** | purchasing contracts management officer |
| **0113** | purchasing contracts manager |
| **1225** | purchasing contracts negotiator |
| **1225** | purchasing contracts officer |
| **1524** | purchasing control clerk |
| **0113** | purchasing director |
| **1523** | purchasing expediter |
| **0113** | purchasing manager |
| **1225** | purchasing officer |
| **1225** | purchasing supervisor |
| **1225** | purchasing-services contracts negotiator |
| **9232** | purification operator - chemical processing |
| **9411** | purification operator - zinc oxide leach |
| **9461** | purifier operator - food and beverage processing |
| **9231** | purity control operator - zinc leaching |
| **9537** | purse maker, leather |
| **8262** | purse seine fisherman/woman |
| **6522** | purser - air transportation |
| **6522** | purser - water transport |
| **4021** | pursers instructor |
| **9619** | putty applicator - furniture and fixtures manufacturing |
| **5244** | pyrographer |
| **2142** | pyrometallurgical engineer |
| **2115** | pyrometallurgist |
| **9537** | pyrotechnics assembler |

## Q

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|---|---|
| **2171** | QA (quality assurance) analyst - informatics |
| **2141** | QA (quality assurance) engineer |
| **8613** | quahog digger |
| **1315** | qualified customs broker |
| **2261** | qualified operator - non-destructive testing |
| **2141** | quality assurance (QA) engineer |
| **9415** | quality assurance inspector - steel mill |
| **2262** | quality assurance officer |
| **2233** | quality assurance technologist |
| **9465** | quality control checker - food and beverage processing |
| **2112** | quality control chemist |
| **0212** | quality control director - chemistry |
| **2141** | quality control engineer |
| **7201** | quality control foreman/woman - metal machining |
| **9217** | quality control foreman/woman - textiles |
| **9535** | quality control inspector - plastic products manufacturing |
| **9447** | quality control inspector - textiles |
| **9533** | quality control inspector - wood products manufacturing |
| **9522** | quality control inspector, automotive engines - motor vehicle manufacturing |
| **0212** | quality control manager - pharmaceutical products |
| **9214** | quality control supervisor - rubber and plastic products manufacturing |
| **2211** | quality control technician - chemical processing |
| **2211** | quality control technician - chemistry |
| **2211** | quality control technician - food processing |
| **2233** | quality control technician (except chemical) |
| **2211** | quality control technologist - chemical processing |
| **2211** | quality control technologist - food processing |
| **2233** | quality control technologist - industrial engineering |
| **2233** | quality control technologist (except chemical) |
| **9447** | quality control tester - textiles |
| **9447** | quality controller - textiles |
| **0911** | quality-control services manager |
| **4169** | quantitative historian |
| **2234** | quantity surveyor - construction |
| **2234** | quantity surveyor-estimator |
| **2263** | quarantine officer - public health |
| **7372** | quarry driller |
| **7611** | quarry dump attendant |
| **8221** | quarry foreman/woman |
| **7611** | quarry labourer |
| **0811** | quarry manager |
| **8221** | quarry supervisor |

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|---|---|
| **0811** | quarrying manager |
| **0811** | quarrying operations manager |
| **7532** | quartermaster |
| **9414** | quartz boat builder - stone products |
| **9523** | quartz crystal etcher and plater - electronic equipment manufacturing |
| **9524** | quartz lamp assembler |
| **9414** | quartzware fabricator - stone products |
| **2113** | quaternarist |
| **2113** | quaternary scientist |
| **2113** | quaternary specialist |
| **4112** | Quebec notary |
| **5125** | Quebec Sign Language (LSQ) interpreter |
| **1227** | Queen's Bench registrar |
| **4112** | Queen's Counsel |
| **9411** | quenching car operator |
| **9211** | quenching foreman/woman - mineral and metal processing |
| **9211** | quenching foreman/woman - primary metal processing |
| **9471** | quick print machine operator |
| **9474** | quick print machine tender - photographic processing |
| **9441** | quill winder - textile manufacturing |
| **9441** | quiller - textile manufacturing |
| **7311** | quiller machine fixer - textile manufacturing |
| **7311** | quiller setter - textile manufacturing |
| **7311** | quilter fixer - textile manufacturing |
| **7311** | quilter mechanic - textile manufacturing |
| **7311** | quilter setter-fixer - textile manufacturing |
| **9217** | quilting foreman/woman - textile processing |
| **7311** | quilting machine fixer - textile manufacturing |
| **7311** | quilting machine mechanic - textile manufacturing |
| **9442** | quilting machine operator |
| **7311** | quilting machine setter-fixer - textile manufacturing |
| **5231** | quiz master - radio and television |
| | **R** |
| **3233** | R.N.A. (registered nursing assistant) |
| **3233** | R.P.N. (registered practical nurse) |
| **3219** | R.T.O. (registered orthotic technician) |
| **3219** | R.T.P. (registered prosthetic technician) |
| **3219** | R.T.P.O. (registered prosthetic and orthotic technician) |
| **4154** | rabbi |
| **0821** | rabbit breeder |
| **5251** | race car driver |
| **4164** | race relations officer |
| **7205** | race track maintenance superintendent |
| **8431** | racehorse exerciser |
| **5253** | racehorse judge - racetrack |
| **8252** | racehorse trainer |
| **6316** | racetrack betting supervisor |
| **6611** | racetrack cashier |
| **6316** | racetrack clerk supervisor |
| **5253** | racetrack clocker |
| **0513** | racetrack director |
| **5221** | racetrack finish photographer |
| **5253** | racetrack steward |
| **5253** | racetrack timer |
| **5253** | racing secretary and handicapper |
| **9613** | rack loader |
| **7246** | racker - telecommunications |
| **9537** | racquet stringer |
| **2133** | radar engineer |
| **2241** | radar systems technician |
| **2241** | radar technician |
| **9523** | radar-indicator inspector - electronic equipment manufacturing |
| **9523** | radar-receiver assembler |
| **9417** | radial drill operator - metal machining |
| **9417** | radial drill press operator - metal machining |
| **9417** | radial drill press set-up operator - metal machining |
| **9417** | radial drill set-up operator - metal machining |
| **9423** | radial tire builder |
| **9437** | radial-arm saw operator - woodworking |
| **2111** | radiation biophysicist |
| **2263** | radiation monitor |
| **3111** | radiation oncologist |
| **3215** | radiation oncology simulator technologist |
| **3215** | radiation oncology technician |
| **3215** | radiation oncology technologist |
| **2263** | radiation surveyor |
| **3215** | radiation technologist - cancer therapy |
| **3215** | radiation technologist - oncology |
| **3215** | radiation therapist |
| **3215** | radiation therapists supervisor |
| **3215** | radiation therapy chief technologist |
| **3215** | radiation therapy clinical co-ordinator |
| **3215** | radiation therapy clinical instructor |
| **3215** | radiation therapy technical co-ordinator |
| **3215** | radiation therapy technologist (RTT) |
| **9523** | radiation-detector assembler |
| **9522** | radiator inspector - motor vehicle manufacturing |
| **7535** | radiator installer - auto repair service |
| **7535** | radiator installer - automotive service |
| **9522** | radiator installer - motor vehicle manufacturing |
| **9526** | radiator maker |
| **7252** | radiator pipe installer |
| **7251** | radiator plumber |
| **6411** | radio advertising time sales representative |
| **2244** | radio and electronic overhaul and repair mechanic - avionics |
| **2244** | radio and radar equipment inspector - avionics |
| **2244** | radio and radar equipment installer - avionics |

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| **2133** | radio and television broadcasting design engineer |
| **2133** | radio and television broadcasting systems design engineer |
| **2242** | radio and television service technician |
| **2242** | radio and television service technician apprentice |
| **5231** | radio announcer |
| **9523** | radio assembler and installer |
| **2111** | radio astronomer |
| **5224** | radio broadcasting equipment operator supervisor |
| **5123** | radio commentator |
| **2242** | radio communication equipment repairer |
| **2244** | radio communication equipment repairer - avionics |
| **2244** | radio communication equipment repairman/woman - avionics |
| **5131** | radio director |
| **1525** | radio dispatcher |
| **2241** | radio frequency technologist |
| **5231** | radio host/hostess |
| **2242** | radio installation and repair technician |
| **2262** | radio interference investigator |
| **2242** | radio maintenance technician |
| **5226** | radio music program planner |
| **1525** | radio operator |
| **5131** | radio producer |
| **5226** | radio program planner |
| **0512** | radio programming manager |
| **5225** | radio recorder |
| **2242** | radio repair supervisor |
| **2242** | radio repairer |
| **2133** | radio research engineer |
| **5123** | radio researcher |
| **0015** | radio station general manager |
| **0512** | radio station manager |
| **0512** | radio station operations director |
| **2147** | radio systems engineer |
| **5225** | radio technician |
| **1225** | radio time buyer |
| **5121** | radio writer |
| **7237** | radio-frequency welder |
| **2261** | radiographic technician - non-destructive testing |
| **3215** | radiographic technologist |
| **2261** | radiographic tester |
| **3215** | radiography chief technologist |
| **3215** | radiography clinical co-ordinator |
| **3215** | radiography clinical instructor |
| **3215** | radiography supervisor |
| **3215** | radiography technical co-ordinator |
| **3215** | radiography technical director |
| **3215** | radiography technologist |
| **3215** | radiography technologists supervisor |
| **3215** | radioisotope technician |
| **3215** | radioisotope technologist |

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|---|---|
| **3215** | radiological technician |
| **3215** | radiological technologist |
| **3111** | radiologist |
| **3414** | radiology aide |
| **3215** | radiology technologist |
| **3111** | radio-oncologist |
| **3111** | radio-oncology specialist |
| **7246** | radiotelephone installer and repairer |
| **1525** | radio-telephone operator |
| **3215** | radiotherapy technician |
| **3215** | radiotherapy technologist |
| **9535** | radome finisher - plastic manufacturing |
| **6532** | rafting guide |
| **9614** | rag checker - pulp and paper |
| **9614** | rag sorter - pulp and paper |
| **9616** | rag sorter and cutter - textile processing |
| **4217** | ragi |
| **7371** | rail crane operator |
| **7441** | rail fence builder |
| **7531** | rail grinder - railway |
| **7622** | rail lubricator |
| **0731** | rail operations superintendent |
| **7531** | rail sander |
| **7531** | rail saw operator |
| **7531** | rail saw operator - railway |
| **2275** | rail traffic controller |
| **7301** | rail transport equipment repair foreman/woman |
| **7301** | rail transport equipment repairers foreman/woman |
| **0731** | rail transport manager |
| **2131** | rail transportation traffic engineer |
| **7314** | rail vehicle mechanic |
| **7531** | rail-aligner operator - railway |
| **7314** | railcar mechanic apprentice |
| **7531** | rail-grinder operator - railway |
| **7531** | rail-lifter operator - railway |
| **1312** | railroad claims adjuster - insurance |
| **0012** | railroad commissioner |
| **2262** | railway accident investigation officer |
| **7252** | railway car and locomotive pipefitter |
| **9526** | railway car assembler |
| **6732** | railway car cleaner |
| **7531** | railway car controller - railway yard |
| **7622** | railway car decal applier |
| **7531** | railway car distributor |
| **7531** | railway car greaser |
| **7301** | railway car inspection foreman/woman |
| **7314** | railway car inspector |
| **7301** | railway car inspectors foreman/woman |
| **9536** | railway car letterer |
| **9526** | railway car liner |
| **7452** | railway car loader |
| **7531** | railway car lubricating specialist |
| **7531** | railway car lubricator |
| **7301** | railway car maintenance foreman/woman |
| **7301** | railway car maintenance supervisor |

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| 7531 | railway car oiler |
| 0911 | railway car production manager |
| 7371 | railway car puller - crane |
| 7301 | railway car repair foreman/woman |
| 7301 | railway car repairer foreman/woman |
| 7612 | railway car repairer helper |
| 7301 | railway car repairer supervisor |
| 9536 | railway car stenciller |
| 9526 | railway car trimmer |
| 6345 | railway car upholsterer |
| 9536 | railway car varnisher |
| 7622 | railway car weigher |
| 7314 | railway carman/woman |
| 7314 | railway carman/woman apprentice |
| 7314 | railway carman/woman inspector |
| 7316 | railway coach fitter |
| 7314 | railway coach repairer |
| 7362 | railway conductor |
| 7302 | railway construction and maintenance superintendent |
| 6322 | railway cook |
| 6311 | railway dining car food service supervisor |
| 0731 | railway division superintendent |
| 7361 | railway engineer |
| 7361 | railway engineer trainee |
| 6221 | railway equipment and supplies technical sales specialist |
| 6221 | railway equipment and supplies technical salesperson |
| 7301 | railway equipment department supervisor |
| 7314 | railway equipment inspector |
| 7301 | railway equipment maintenance inspectors foreman/woman |
| 7531 | railway equipment operator |
| 5212 | railway equipment restoration technician - museum |
| 6524 | railway express agent |
| 0731 | railway freight manager |
| 7302 | railway gang foreman/woman |
| 4311 | railway guard - police |
| 7361 | railway hostler |
| 2262 | railway inspector |
| 4311 | railway investigator - police |
| 7622 | railway labourer |
| 7531 | railway line inspector |
| 7361 | railway locomotive engineer |
| 1511 | railway mail clerk |
| 7531 | railway maintenance equipment operator |
| 0731 | railway manager |
| 6524 | railway passenger agent |
| 0731 | railway passenger operations manager |
| 0431 | railway police chief |
| 4311 | railway police constable |
| 4311 | railway police officer |
| 0431 | railway police supervisor |
| 6524 | railway reservations clerk |
| 7445 | railway rolling stock air valve repairer |
| 7301 | railway rolling stock assembly foreman/woman |
| 7271 | railway rolling stock carpenter |
| 7271 | railway rolling stock joiner |
| 7301 | railway rolling stock manufacturing foreman/woman |
| 0911 | railway rolling stock production manager |
| 7302 | railway section foreman/woman |
| 7242 | railway signal installer |
| 7242 | railway signal maintainer |
| 7531 | railway signalman/woman |
| 4311 | railway special agent - police |
| 6313 | railway station clerk supervisor |
| 1511 | railway station mail clerk |
| 2154 | railway surveyor |
| 7531 | railway tank car servicer |
| 2231 | railway technician |
| 7531 | railway tie inspector |
| 7531 | railway track inspector |
| 7622 | railway track labourer |
| 7302 | railway track laying foreman/woman |
| 7531 | railway track maintenance equipment operator |
| 7302 | railway track maintenance foreman/woman |
| 7622 | railway track maintenance labourer |
| 7531 | railway track maintenance worker |
| 7531 | railway track patroller |
| 7531 | railway track repairer |
| 7302 | railway track section boss |
| 7531 | railway track tamper operator |
| 7531 | railway trackman/woman |
| 7531 | railway train engine maintenance worker |
| 0731 | railway transport area manager |
| 0731 | railway transport general agent |
| 7304 | railway transport operating support foreman/woman |
| 7304 | railway transport operations foreman/woman |
| 7304 | railway transport operations supervisor |
| 7622 | railway yard labourer |
| 7302 | railwaymen/women foreman/woman |
| 7531 | railway-tie-injector operator |
| 8411 | raise borer helper - underground mining |
| 8231 | raise boring machine operator - underground mining |
| 8231 | raise driller - underground mining |
| 8231 | raise miner |
| 8411 | raise miner helper |
| 8231 | raiseman/woman |
| 9414 | ram press operator - clay products |
| 7534 | ramp agent - air transport |
| 7534 | ramp attendant - air transport |
| 7534 | ramp lead hand - air transport |
| 0731 | ramp manager - airline |
| 1215 | ramp services supervisor - airport |
| 7534 | ramp station attendant - air transport |
| 8252 | ranch foreman/woman |
| 8431 | ranch hand |

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| **8431** | ranch worker |
| **0821** | rancher |
| **0821** | ranchman/woman |
| **2223** | range conservationist |
| **2223** | range manager |
| **1526** | rapid transit scheduler |
| **1431** | rate reviewer |
| **0811** | raw materials production manager |
| **9441** | raw stock dryer - textile manufacturing |
| **9441** | raw stock dyer - textile manufacturing |
| **0431** | RCMP (Royal Canadian Mounted Police) commissioner |
| **4311** | RCMP (Royal Canadian Mounted Police) officer |
| **4311** | RCMP officer |
| **3132** | RD (registered dietitian) |
| **3216** | RDMS (registered diagnostic medical sonographer) |
| **3132** | RDN (registered dietitian-nutritionist) |
| **3223** | RDT (registered dental technician) |
| **3223** | RDT (registered dental technologist) |
| **7452** | reach truck operator |
| **7533** | reaction ferry operator |
| **2111** | reactor physicist |
| **5135** | reader - performing arts |
| **1452** | readers |
| **4032** | reading clinician - elementary school |
| **4031** | reading clinician - secondary school |
| **7511** | ready-mix driver - construction |
| **7511** | ready-mix truck driver |
| **7452** | ready-mix truck loader |
| **6342** | ready-to-wear garment tailor |
| **9421** | reagent mixer - cellulose film manufacturing |
| **9411** | reagent tender - primary metal processing |
| **9611** | reagent tender helper - primary metal processing |
| **1242** | real estate administrative assistant |
| **6232** | real estate agency representative |
| **6232** | real estate agent |
| **6232** | real estate agent supervisor |
| **0121** | real estate agents managing supervisor |
| **1314** | real estate analyst |
| **1314** | real estate appraisal technician |
| **1314** | real estate appraiser |
| **1314** | real estate assessor |
| **0121** | real estate branch manager |
| **0121** | real estate broker |
| **1434** | real estate clerk |
| **0121** | real estate dealer |
| **0121** | real estate developer |
| **4211** | real estate law clerk |
| **4112** | real estate lawyer |
| **0013** | real estate management company executive director |
| **0121** | real estate national sales manager |
| **0121** | real estate office manager |
| **4211** | real estate paralegal |
| **1224** | real estate rental agent |
| **6232** | real estate sales consultant |
| **0121** | real estate sales district manager |
| **0121** | real estate sales manager |
| **0121** | real estate sales managing director |
| **6232** | real estate sales representative |
| **6232** | real estate sales supervisor |
| **6232** | real estate salesperson |
| **1242** | real estate secretary |
| **0121** | real estate service manager |
| **6232** | realtor |
| **1434** | realty clerk |
| **0412** | realty taxation manager |
| **0433** | rear admiral |
| **9441** | rebeamer - textile manufacturing |
| **9421** | recausticizer |
| **1521** | receiver |
| **0012** | receiver general for Canada |
| **6563** | receiving barn custodian |
| **1521** | receiving checker |
| **1521** | receiving clerk |
| **1521** | receiving clerk for returned merchandise |
| **1215** | receiving clerks supervisor |
| **1521** | receiving room clerk |
| **1215** | receiving supervisor |
| **1414** | reception clerk |
| **6525** | reception clerk - hotel |
| **1414** | reception desk clerk (except hotel) |
| **1414** | receptionist |
| **1414** | receptionist-clerk |
| **1211** | receptionists and hostesses supervisor |
| **1211** | receptionists supervisor |
| **1414** | receptionist-secretary |
| **1414** | receptionist-switchboard operator |
| **1414** | receptionist-telephone operator |
| **1414** | receptionist-typist |
| **5133** | recital singer |
| **9423** | reclaim millman/woman - rubber products manufacturing |
| **9423** | reclaimed rubber inspector |
| **7384** | reclamation diver |
| **2131** | reclamation engineer |
| **9211** | reclamation foreman/woman - primary metal and mineral products processing |
| **1434** | reconciliation clerk - financial sector |
| **4313** | reconnaissance patrolman |
| **1451** | record library assistant |
| **5131** | record producer |
| **6421** | record shop sales clerk |
| **6421** | record shop salesperson |
| **0621** | record store manager |
| **6421** | record store sales clerk |
| **6421** | record store salesperson |
| **1227** | recorder of deeds |
| **1227** | recorder of wills |
| **5133** | recording artist |
| **5227** | recording assistant - recording studio |

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| **1523** | recording clerk - broadcasting |
| **5131** | recording director |
| **5225** | recording engineer |
| **1241** | recording secretary |
| **5225** | recording studio technician |
| **5212** | recording technician - museum |
| **6411** | recordings contact person |
| **1451** | recordings library clerk |
| **0114** | records administrator |
| **1221** | records analyst - access to information |
| **1411** | records classification clerk |
| **1253** | records classifier |
| **1411** | records clerk |
| **1211** | records clerks supervisor |
| **1253** | records digitizing technician |
| **1122** | records filing systems analysts supervisor |
| **1411** | records filing-system clerk |
| **1411** | records management clerk |
| **0114** | records management services manager |
| **1211** | records management services supervisor |
| **1122** | records management specialist |
| **1211** | records management supervisor |
| **1122** | records management systems analyst |
| **1253** | records management technician |
| **0114** | records manager |
| **1122** | records manager - business services |
| **1211** | records office supervisor |
| **1411** | records support clerk |
| **1253** | records technician |
| **9421** | recovery equipment operator - chemical processing |
| **9411** | recovery equipment operator - primary metal and mineral processing |
| **9432** | recovery operator - pulp and paper |
| **9614** | recovery plant helper - pulp and paper |
| **9235** | recovery plant operator - pulp and paper |
| **3012** | recovery room nurse |
| **9421** | recovery vat tender |
| **0513** | recreation administrator |
| **0513** | recreation administrator in chief |
| **3414** | recreation aide - health services |
| **4167** | recreation analyst |
| **4167** | recreation and leisure programs supervisor |
| **4167** | recreation and leisure supervisor |
| **6722** | recreation and sports attendant |
| **0513** | recreation and sports director |
| **1123** | recreation association information officer |
| **6722** | recreation attendant |
| **0513** | recreation centre director |
| **0513** | recreation centre sports director |
| **0513** | recreation chief administrator |
| **4167** | recreation consultant |
| **4167** | recreation co-ordinator |
| **4167** | recreation counsellor |
| **0513** | recreation director |
| **7441** | recreation equipment erector |
| **0513** | recreation establishment director |
| **0513** | recreation establishment managing supervisor |
| **0714** | recreation facility manager |
| **0513** | recreation head administrator |
| **5254** | recreation instructor |
| **5254** | recreation leader |
| **0513** | recreation manager |
| **6722** | recreation park attendant |
| **2153** | recreation planner |
| **4167** | recreation policy analyst |
| **5254** | recreation program leader |
| **4167** | recreation programmer |
| **0513** | recreation programs director |
| **0513** | recreation programs manager |
| **0513** | recreation service director |
| **0513** | recreation service manager |
| **4167** | recreation services co-ordinator |
| **7441** | recreation structure erector |
| **4167** | recreation supervisor |
| **5254** | recreation technician |
| **3414** | recreation therapist aide |
| **3414** | recreation therapy assistant |
| **7384** | recreation vehicle apprentice mechanic |
| **9526** | recreation vehicle assembler |
| **7384** | recreation vehicle mechanic |
| **7384** | recreation vehicle repairer |
| **7384** | recreation vehicle service technician |
| **7384** | recreation vehicle technician |
| **4167** | recreation, sports or fitness policy analyst |
| **4167** | recreational activities consultant |
| **4167** | recreational activities co-ordinator |
| **4167** | recreational activities counsellor |
| **4167** | recreational activities program co-ordinator |
| **0014** | recreational association executive director |
| **6722** | recreational camp attendant |
| **0632** | recreational campground manager |
| **7441** | recreational equipment installer |
| **6421** | recreational equipment rental-shop attendant |
| **6421** | recreational equipment salesperson - retail |
| **6722** | recreational facility attendant |
| **4021** | recreational leadership teacher |
| **4167** | recreational programs co-ordinator |
| **3144** | recreational therapist |
| **3414** | recreational therapy aide |
| **4167** | recreationist - geriatrics |
| **4167** | recreologist |
| **4011** | recreology professor - university |
| **1223** | recruiter - employment |
| **0112** | recruiting director |
| **0112** | recruiting manager |
| **1223** | recruiting officer |
| **4311** | recruitment and training officer - police |
| **1223** | recruitment assistant |
| **1223** | recruitment consultant |
| **1223** | recruitment officer |
| **1223** | recruitment specialist |
| **9241** | rectifier operator - electrical power systems |

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| **0014** | rector - education |
| **7452** | recycled paper handler |
| **4161** | recycling co-ordinator - residuals management |
| **4161** | recycling program co-ordinator |
| **6411** | recycling sales representative |
| **7522** | recycling truck driver |
| **7522** | recycling truck driver - public works |
| **0311** | Red Cross first aid director |
| **3012** | Red Cross nurse |
| **9411** | red mud thickener tender |
| **6721** | redcap |
| **9441** | redraw operator - textile manufacturing |
| **9461** | redryer tender - tobacco processing |
| **9461** | redrying machine operator - tobacco processing |
| **9211** | reduction plant foreman/woman - primary metal and mineral products processing |
| **9616** | reed cleaner - textile processing |
| **7311** | reed fixer - textile manufacturing |
| **7311** | reed setter - textile manufacturing |
| **9461** | reel oven operator - food and beverage processing |
| **9441** | reel tender - textile manufacturing |
| **9441** | reel winder - textile manufacturing |
| **9612** | reel wrapper - wire products manufacturing |
| **8615** | reeled tubing helper - oil field services |
| **8412** | reeled tubing operator - oil field services |
| **9441** | reeler - textile manufacturing |
| **9535** | reeler and cutter - plastic manufacturing |
| **9411** | reeling machine operator - primary metal processing |
| **9441** | reeling machine operator - textile manufacturing |
| **0011** | reeve |
| **5253** | referee |
| **1451** | reference aide - library |
| **1451** | reference assistant - library |
| **1451** | reference clerk |
| **1451** | reference clerk - library |
| **5111** | reference librarian |
| **0912** | refined petroleum products distribution manager |
| **9432** | refiner - pulp and paper |
| **9611** | refiner helper |
| **9432** | refiner man/woman - pulp and paper |
| **9423** | refiner mill tender - rubber products manufacturing |
| **9432** | refiner operator - pulp and paper |
| **2134** | refinery engineer |
| **2264** | refinery equipment inspector |
| **0432** | refinery fire chief |
| **9611** | refinery helper - primary metal and mineral products processing |
| **9611** | refinery labourer |
| **9232** | refinery operator |
| **9231** | refinery process operator - primary metal processing |
| **9232** | refinery process technician |
| **0911** | refinery superintendent |
| **9212** | refinery unit foreman/woman |
| **2142** | refining and metalworking engineer |
| **9537** | reflective sign fabricator |
| **2261** | reflectoscope tester |
| **3232** | reflexologist |
| **4422** | reformatory guard |
| **7281** | refractory brick repairer-mason |
| **7281** | refractory bricklayer |
| **7205** | refractory bricklayer foreman/woman |
| **7611** | refractory bricklayer helper |
| **7281** | refractory builder |
| **7281** | refractory mason |
| **9414** | refractory mortar mixer |
| **9414** | refractory tamp moulder - clay products |
| **9524** | refrigerant gas leak tester |
| **7293** | refrigeration and air conditioning equipment insulator |
| **7205** | refrigeration and air conditioning equipment insulators foreman/woman |
| **7313** | refrigeration and air conditioning mechanic |
| **7313** | refrigeration and air conditioning mechanic (non-construction) |
| **7313** | refrigeration and air conditioning mechanic apprentice |
| **7313** | refrigeration and mechanical technician |
| **7301** | refrigeration contractor |
| **2132** | refrigeration engineer |
| **9524** | refrigeration equipment gas charger |
| **7301** | refrigeration foreman/woman |
| **7313** | refrigeration mechanic |
| **7313** | refrigeration mechanic apprentice |
| **7612** | refrigeration mechanic helper |
| **7301** | refrigeration mechanics foreman/woman |
| **9212** | refrigeration plant foreman/woman |
| **9241** | refrigeration plant operator |
| **9613** | refrigeration plant operator helper |
| **7313** | refrigeration system installer |
| **2253** | refrigeration systems draftsperson |
| **7313** | refrigeration technician |
| **9524** | refrigeration unit inspector |
| **9524** | refrigerator assembler, electric |
| **9619** | refrigerator crater |
| **9524** | refrigerator inspector - electrical appliance manufacturing |
| **7332** | refrigerator repairer |
| **7332** | refrigerator servicer |
| **4164** | refugee affairs program officer |
| **4168** | refugee board member |
| **7522** | refuse truck driver - public works |
| **0114** | regional administrative manager |
| **4112** | regional attorney |
| **0122** | regional bank manager |
| **1213** | regional census manager |

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| 1228 | regional claims and benefits officer - employment insurance |
| 0122 | regional collection manager |
| 4168 | regional committee officer - government services |
| 0124 | regional communications director |
| 0111 | regional controller - financial services |
| 0423 | regional correctional administrator |
| 4168 | regional council officer |
| 0122 | regional credit manager |
| 4112 | regional Crown prosecutor |
| 4163 | regional development analyst |
| 4163 | regional development officer |
| 4163 | regional economic development agency officer |
| 0412 | regional economic services manager - government services |
| 4162 | regional economist |
| 1112 | regional financial analyst |
| 2122 | regional forest inventory officer |
| 4163 | regional industrial development officer |
| 2122 | regional inventory officer - forestry |
| 0511 | regional library director |
| 0601 | regional manager - sales |
| 0131 | regional manager - telecommunications system |
| 0011 | regional municipality chair |
| 0012 | regional municipality general director |
| 5212 | regional museum technician |
| 0411 | regional pay centre chief - employment insurance |
| 2153 | regional planner |
| 4161 | regional recycling and waste reduction program co-ordinator |
| 0601 | regional sales director |
| 0601 | regional sales manager |
| 6411 | regional sales representative - wholesale |
| 0422 | regional schools superintendent |
| 1221 | regional services chief |
| 0132 | regional services manager - postal and courier services |
| 0422 | regional superintendent - schools |
| 0412 | regional taxation manager |
| 5224 | regional transmitter technician |
| 0013 | regional vice-president - financial, communications and other business services |
| 0016 | regional vice-president - goods production, utilities, transportation and construction |
| 0014 | regional vice-president - health, education, social and community services and membership organizations |
| 0015 | regional vice-president - trade, broadcasting and other services |
| 3232 | registered acupuncture practicioner |
| 3213 | registered animal health technologist |
| 3213 | registered animal health technologist (RAHT) |
| 2251 | registered building technician |
| 2251 | registered building technologist |
| 3217 | registered cardiology technologist |
| 3413 | registered care aide |
| 3414 | registered central service technician - medical |
| 4153 | registered clinical counsellor |
| 3012 | registered community health nurse |
| 3144 | registered dance therapist (DTR) |
| 3411 | registered dental assistant |
| 3222 | registered dental hygienist |
| 3223 | registered dental technician |
| 3223 | registered dental technologist |
| 3222 | registered dental therapist |
| 6562 | registered dermal therapist |
| 3216 | registered diagnostic cardiac sonographer |
| 3216 | registered diagnostic medical sonographer (RDMS) |
| 3132 | registered dietitian (RD) |
| 3132 | registered dietitian-nutritionist (RDN) |
| 3217 | registered electrocardiography technician |
| 3234 | registered emergency paramedic |
| 4153 | registered family therapist |
| 5241 | registered graphic designer (RGD) |
| 3012 | registered industrial nurse |
| 5242 | registered interior designer |
| 1113 | registered investment representative |
| 3144 | registered kinesiologist |
| 1511 | registered mail clerk |
| 4153 | registered marriage and family therapist |
| 4153 | registered marriage therapist |
| 3236 | registered massage practitioner |
| 3236 | registered massage therapist (RMT) |
| 3211 | registered medical technologist |
| 3124 | registered midwife (RM) |
| 3012 | registered nurse - call centre |
| 3012 | registered nurse - contact centre |
| 3124 | registered nurse - extended class (RN-EC) |
| 3012 | registered nurse - independent practice |
| 3012 | registered nurse - public and community health |
| 3012 | registered nurse - telehealth |
| 3012 | registered nurse (R.N.) |
| 3233 | registered nursing assistant (R.N.A.) |
| 3132 | registered nutritionist |
| 4161 | registered occupational hygienist |
| 3414 | registered orthopedic technologist |
| 3219 | registered orthotic technician (R.T.O.) |
| 4161 | registered patent agent |
| 3131 | registered pharmacist |
| 3142 | registered physical therapist |
| 3142 | registered physiotherapist |
| 3233 | registered practical nurse (R.P.N.) |
| 3132 | registered professional dietitian |
| 2122 | registered professional forester (RPF) |
| 3132 | registered professional nutritionist |
| 3219 | registered prosthetic and orthotic technician (R.T.P.O.) |

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| **3219** | registered prosthetic technician (R.T.P.) |
| **3012** | registered psychiatric nurse (R.P.N.) |
| **4151** | registered psychologist |
| **3012** | registered public health nurse |
| **3215** | registered radiology technologist |
| **1113** | registered representatives supervisor |
| **3214** | registered respiratory care practitioner |
| **3214** | registered respiratory therapist (RRT) |
| **4212** | registered social service worker |
| **4152** | registered social worker |
| **3211** | registered technologist - medical |
| **3215** | registered technologist in nuclear medicine (RTNM) |
| **3215** | registered technologist in radiation therapy |
| **3215** | registered technologist in radiography (RTR) |
| **4211** | registered trademark agent |
| **3216** | registered ultrasound technologist |
| **3213** | registered veterinary technician |
| **3213** | registered veterinary technician (RVT) |
| **0421** | registrar - college or university |
| **1227** | registrar - courts |
| **1452** | registrar clerk |
| **1227** | registrar of bankruptcy |
| **1227** | registrar of deeds |
| **1227** | registrar of probate |
| **1227** | registrar of wills |
| **1452** | registration clerk |
| **1211** | registration unit supervisor |
| **1452** | registry clerk |
| **1227** | registry officer - marriages |
| **1211** | registry supervisor |
| **7246** | regulator and tester - telecommunications |
| **1122** | regulatory affairs analyst |
| **1122** | regulatory affairs associate |
| **1122** | regulatory affairs officer |
| **1122** | regulatory affairs specialist |
| **1122** | regulatory compliance officer |
| **1122** | regulatory compliance specialist |
| **2121** | regulatory toxicologist |
| **3414** | rehabilitation aide |
| **0712** | rehabilitation and renovation specialist |
| **3414** | rehabilitation assistant |
| **4153** | rehabilitation counsellor |
| **4215** | rehabilitation instructor for persons who are blind |
| **4215** | rehabilitation instructor of persons with a visual impairment |
| **3011** | rehabilitation nursing supervisor |
| **4212** | rehabilitation officer - social services |
| **0423** | rehabilitation residential services director |
| **4212** | rehabilitation service worker |
| **0311** | rehabilitation services director |
| **0311** | rehabilitation services director - medical services |
| **3111** | rehabilitation specialist |
| **4215** | rehabilitation teacher |
| **4215** | rehabilitation teacher for persons who are blind |
| **4215** | rehabilitation teacher of persons with a visual impairment |
| **4212** | rehabilitation worker - social services |
| **5133** | rehearsal musician |
| **6564** | Reiki master |
| **2264** | reinforced concrete inspector |
| **9418** | reinforcing cage maker |
| **9418** | reinforcing cage winding machine operator |
| **7236** | reinforcing ironworker |
| **7236** | reinforcing rodworker |
| **7236** | reinforcing steel ironworker |
| **7611** | reinforcing wire mesh worker |
| **1111** | reinsurance analyst |
| **1313** | reinsurance underwriter - insurance |
| **9619** | relaster - shoe manufacturing |
| **7246** | relay adjuster - telecommunications |
| **5125** | relay interpreter |
| **7246** | relay tester - telecommunications |
| **7243** | relay tester and maintainer - electrical power system |
| **7243** | relay tester and repairer - electrical power system |
| **1411** | relief clerk |
| **2271** | relief pilot |
| **8221** | relieving surface foreman/woman - mining |
| **4011** | religion professor - university |
| **0423** | religious education director |
| **4031** | religious education high school teacher |
| **4217** | religious education worker |
| **4217** | religious superior - religious community |
| **4217** | religious superior/mother superior |
| **9461** | relish maker - food and beverage processing |
| **1221** | relocation commissioner |
| **4156** | relocation consultant |
| **4156** | relocation counsellor |
| **4413** | remedial education aide |
| **3144** | remedial gymnast |
| **3144** | remedial gymnastics teacher (except education) |
| **3144** | remedial gymnasts' supervisor |
| **3232** | remedial herbalist |
| **3232** | remedial herbologist |
| **4021** | remedial teacher - college level |
| **4032** | remedial teacher - elementary school |
| **4031** | remedial teacher - secondary school |
| **3144** | remedial therapist |
| **1431** | remittance accounts clerk |
| **5226** | remote broadcasting co-ordinator |
| **7384** | remote operated vehicle (ROV) operator |
| **2255** | remote sensing (RS) application specialist |
| **2255** | remote sensing (RS) technician |
| **2255** | remote sensing (RS) technologist |
| **2131** | remote sensing engineer |
| **2113** | remote sensing geologist |
| **2271** | remote sensing pilot |

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| **2111** | remote sensing research scientist |
| **3212** | renal technician |
| **9213** | rendering plant worker foreman/woman |
| **9213** | rendering plant workers foreman/woman - meat packing |
| **5223** | rendering specialist |
| **1434** | renewal clerk - financial sector |
| **7271** | renovation carpenter |
| **7611** | renovation carpenter helper |
| **0712** | renovation contractor |
| **6421** | rental agent - retail |
| **1224** | rental agent, apartments |
| **6421** | rental clerk - retail |
| **6421** | rental counter representative |
| **6211** | rental service supervisor |
| **1224** | rentals agent |
| **7244** | repair lineman/woman - electric power systems |
| **7245** | repair lineman/woman - telecommunications |
| **7533** | repair ship owner-operator |
| **2241** | repairer - electronics production |
| **7246** | repairer - telecommunications |
| **7312** | repairer mechanic |
| **9533** | repairer, assembled wood products |
| **9531** | repairer, fibreglass boat assembly |
| **0411** | repayment and benefits control chief - employment insurance |
| **7246** | repeater installer - telecommunications |
| **7246** | repeater tester and adjuster - telecommunications |
| **5123** | reporter |
| **2123** | representative, government agricultural service |
| **5244** | reproduction woodcarver |
| **9432** | repulper operator |
| **5225** | re-recording mixer |
| **9431** | resaw operator |
| **9431** | resaw operator - sawmill |
| **9437** | resaw operator - woodworking |
| **9431** | resawyer - sawmill |
| **0421** | research administrator - university or college |
| **0212** | research and development manager |
| **3143** | research and development occupational therapist |
| **4169** | research anthropologist |
| **4169** | research archaeologist |
| **5113** | research archivist |
| **2223** | research assistant - forestry |
| **1254** | research assistant - generalist (except university) |
| **4012** | research assistant - post-secondary |
| **1254** | research assistant (except post-secondary) |
| **3141** | research audiologist |
| **2121** | research biologist |
| **2134** | research chemical engineer |
| **2112** | research chemist |
| **3132** | research dietitian |
| **0212** | research director - forestry |
| **0212** | research director - manufacturing |
| **0212** | research director - mining |
| **0421** | research director - university or college |
| **2133** | research engineer - nanoelectronics |
| **2122** | research forester |
| **4164** | research home economist |
| **2241** | research laboratory equipment repairer |
| **2161** | research mathematician |
| **2115** | research metallurgist |
| **3132** | research nutritionist |
| **3143** | research occupational therapist |
| **4168** | research officer - federal and intergovernmental affairs |
| **3142** | research physical therapist |
| **3142** | research physiotherapist |
| **4011** | research professor - university |
| **4151** | research psychologist |
| **2115** | research scientist - ceramics |
| **2115** | research scientist - composite materials |
| **1254** | research support officer |
| **6523** | reservation agent - airline |
| **6521** | reservation agent - travel agency |
| **6411** | reservation agent - wholesale |
| **6523** | reservation clerk - airline |
| **6523** | reservation sales agent - airline |
| **6521** | reservation sales agent - travel agency |
| **6524** | reservations agent - cruise line |
| **6524** | reservations agent - railway |
| **6524** | reservations agent (except airline) |
| **6524** | reservations clerk - cruise line |
| **6525** | reservations clerk - hotel |
| **6524** | reservations clerk - wholesale travel |
| **6524** | reservations clerk (except airline) |
| **0632** | reservations manager |
| **6313** | reservations supervisor |
| **6313** | reservations supervisor - airline |
| **6313** | reservations supervisor - hotel |
| **6313** | reservations supervisor - travel agency |
| **1221** | reserve administrator |
| **1434** | reserves calculation clerk - financial sector |
| **2212** | reservoir engineering technician |
| **6731** | residence cleaner |
| **4212** | residence co-ordinator - group home |
| **3112** | resident |
| **3413** | resident care aide - medical |
| **3413** | resident companion - medical |
| **3112** | resident physician |
| **7233** | residential (low rise) sheet metal installer |
| **6541** | residential alarm system specialist |
| **2151** | residential architect |
| **6731** | residential boarding-home cleaner |
| **2151** | residential building architect |
| **7291** | residential building shingler |
| **2251** | residential buildings technologist |
| **0651** | residential cleaning service manager |
| **7281** | residential construction bricklayer |

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| **0016** | residential construction company president |
| **7204** | residential construction foreman/woman |
| **0711** | residential construction manager |
| **7294** | residential construction painter |
| **7251** | residential construction plumber |
| **0711** | residential construction site manager |
| **7204** | residential construction supervisor |
| **7241** | residential construction wirer |
| **4212** | residential counsellor - group home |
| **7441** | residential door installer |
| **7202** | residential electrician supervisor |
| **6221** | residential energy sales adviser |
| **7295** | residential floor and wall covering installer |
| **0712** | residential home builder |
| **0712** | residential homes contractor |
| **7293** | residential insulation installer |
| **7331** | residential oil burner installer and servicer |
| **7331** | residential oil burner mechanic |
| **7294** | residential painter |
| **1224** | residential property manager |
| **6232** | residential real estate agent |
| **6232** | residential real estate salesperson |
| **0712** | residential renovation contractor |
| **7441** | residential room air conditioner installer |
| **7291** | residential steep roofer |
| **4412** | residential support worker |
| **7295** | residential wall and floor covering installer |
| **7241** | residential wireman/woman |
| **9411** | residual metal recoverer |
| **9411** | residue filter operator - zinc oxide leach |
| **7295** | resilient floor installer |
| **7295** | resilient floor layer |
| **7237** | resistance brazer |
| **7237** | resistance seam welder |
| **7237** | resistance welder |
| **7237** | resistance welder tender |
| **7237** | resistance welder-setter |
| **7237** | resistance welding machine setter |
| **7237** | resistance welding set-up man/woman |
| **9523** | resistor assembler - electronic equipment manufacturing |
| **9523** | resistor machine feeder |
| **9523** | resistor-processing equipment operator |
| **0632** | resort campground manager |
| **0632** | resort manager |
| **4162** | resource economist |
| **5111** | resource sharing and processing librarian |
| **2223** | resource technician - forestry |
| **7445** | respirator servicer and fitter |
| **3012** | respiratory care nurse |
| **3214** | respiratory care practitioner |
| **3111** | respiratory disease specialist |
| **3012** | respiratory nurse specialist |
| **3214** | respiratory technician |
| **3214** | respiratory technologist |
| **3214** | respiratory therapist |
| **3214** | respiratory therapy chief |
| **3214** | respiratory therapy clinical instructor |
| **3214** | respiratory therapy supervisor |
| **3111** | respirologist |
| **3413** | respite care aide |
| **4412** | respite worker - home support |
| **9441** | respooler - textile manufacturing |
| **6731** | rest home cleaner |
| **6731** | rest room attendant |
| **6731** | rest room cleaner |
| **0631** | restaurant assistant manager |
| **6611** | restaurant cashier |
| **0015** | restaurant chain corporate controller |
| **[illegible]22** | restaurant cook |
| **6711** | restaurant counter attendant |
| **6411** | restaurant equipment sales representative |
| **6511** | restaurant host/hostess |
| **2263** | restaurant inspector |
| **2263** | restaurant inspector - public health |
| **0631** | restaurant manager |
| **0631** | restaurant manager trainee |
| **1225** | restaurant purchasing agent |
| **1225** | restaurant purchasing officer |
| **6513** | restaurant waiter/waitress - formal service |
| **0631** | restaurateur - food services |
| **7271** | restoration carpenter |
| **7384** | restoration steeplejack |
| **7281** | restoration stonemason |
| **5212** | restoration technician - museum |
| **9416** | restrike hammer operator - metal forging |
| **6331** | retail butcher |
| **6222** | retail buyer |
| **0601** | retail district manager |
| **0015** | retail establishment president |
| **6541** | retail investigator |
| **6541** | retail loss investigator |
| **6541** | retail loss prevention officer |
| **4021** | retail management teacher |
| **6331** | retail meat cutter |
| **6222** | retail merchandiser |
| **3131** | retail pharmacist |
| **6421** | retail sales associate |
| **6421** | retail sales clerk |
| **0621** | retail sales manager |
| **0621** | retail sales manager - e-commerce |
| **6421** | retail sales representative |
| **6211** | retail sales route supervisor |
| **6421** | retail salesperson |
| **6622** | retail shelf stocker |
| **5242** | retail space planner |
| **6211** | retail store department head |
| **6541** | retail store floorman/woman |
| **6541** | retail store floorwalker |
| **0621** | retail store owner |
| **6211** | retail store supervisor |
| **0621** | retailer |
| **7531** | retarder operator - railway yard |
| **0632** | retirement home manager |

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| **9461** | retort battery cook - food and beverage processing |
| **9414** | retort tender - clay products |
| **9461** | retort tender - food and beverage processing |
| **9613** | retort unloader |
| **5221** | retoucher - photography |
| **9214** | retread tire inspection foreman/woman |
| **9214** | retread tire inspection supervisor - rubber products manufacturing |
| **4168** | returning officer |
| **4212** | return-to-work co-ordinator - disability management |
| **4212** | return-to-work facilitator - disability management |
| **6345** | re-upholsterer |
| **0111** | revenue accounting and controls section chief |
| **1431** | revenue accounting clerk |
| **1228** | revenue agent |
| **1228** | revenue officer |
| **0412** | revenue programs chief |
| **0412** | revenue programs manager - government services |
| **1228** | revenue recovery officer |
| **9435** | revenue stamp cutter |
| **1228** | revenue supervisor |
| **9231** | reverberatory furnace operator - primary metal processing |
| **4154** | reverend |
| **9411** | reversing mill operator - primary metal processing |
| **9411** | reversing rolling mill operator - primary metal processing |
| **4112** | review lawyer |
| **5125** | reviser - translation |
| **9441** | rewarper - textile manufacturing |
| **9433** | rewinder - pulp and paper |
| **9441** | rewinder - textile manufacturing |
| **9433** | rewinder tender - pulp and paper |
| **5121** | rewriter |
| **5241** | RGD (registered graphic designer) |
| **2111** | rheologist |
| **3111** | rheumatologist |
| **3111** | rhinologist |
| **9442** | rib knitter - textiles |
| **9442** | ribbing machine operator - textiles |
| **9537** | ribbon inker |
| **9537** | ribbon winder |
| **9537** | ribbon-looping machine tender |
| **9461** | rice mill worker |
| **9461** | rice miller |
| **6722** | ride attendant |
| **5251** | rider |
| **5254** | riding instructor |
| **5254** | riding master |
| **7242** | rig electrician |
| **8222** | rig manager |
| **8222** | rig manager - oil and gas drilling |
| **7311** | rig mechanic |
| **7612** | rig mechanic helper |
| **8412** | rig technician - derrickhand |
| **8232** | rig technician - driller |
| **8412** | rig technician - motorhand |
| **7237** | rig welder |
| **9521** | rigger - aircraft assembly |
| **5227** | rigger - motion pictures, broadcasting and performing arts |
| **7245** | rigger - telecommunications |
| **7371** | rigger (except shipbuilding and aircraft assembly) |
| **9612** | rigger helper - shipbuilding |
| **7611** | rigger's helper - construction |
| **5226** | rigging gaffer |
| **8241** | rigging slinger - logging |
| **4423** | right of way inspector |
| **1225** | right-of-way agent |
| **9523** | rim bander, television picture tube |
| **9418** | rimfire cartridge-priming machine tender |
| **9434** | ring barker operator - wood processing |
| **8231** | ring drill operator |
| **9441** | ring frame operator - textile manufacturing |
| **9421** | ring furnace operator |
| **9421** | ring furnace operator helper |
| **9537** | ring mandrel worker |
| **9416** | ring mill operator - metal forging |
| **9441** | ring spinner - textile manufacturing |
| **9537** | ring stamper |
| **6722** | rink attendant |
| **6722** | rink ice maker |
| **6722** | rink icer |
| **6316** | rink supervisor |
| **9441** | rinser - textile manufacturing |
| **9437** | rip and groove machine tender - woodworking |
| **7521** | ripper operator - heavy equipment |
| **7611** | rip-rap placer |
| **9437** | ripsaw grader-operator - woodworking |
| **9437** | ripsaw matcher - woodworking |
| **9431** | ripsaw operator - sawmill |
| **9414** | ripsaw operator - stone products |
| **9437** | ripsaw operator - woodworking |
| **9414** | ripsawyer - stone products |
| **4162** | risk management analyst |
| **9462** | ritual slaughterer - meat packing plant |
| **2131** | river and canal works engineer |
| **8616** | river driver |
| **2273** | river pilot |
| **2273** | riverboat captain |
| **9411** | rivet heater - primary metal processing |
| **9418** | rivet maker |
| **9418** | rivet shaper |
| **9531** | rivet tester - boat assembly |
| **9527** | riveting machine operator - electrical equipment manufacturing |

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| **9527** | riveting machine tender - electrical equipment manufacturing |
| **3124** | RM (registered midwife) |
| **3236** | RMT (registered massage therapist) |
| **3012** | RN (registered nurse) |
| **9522** | road and roll tester |
| **1411** | road clerk |
| **7302** | road construction boss |
| **7302** | road construction foreman/woman |
| **2264** | road construction inspector |
| **7304** | road foreman/woman - railway transport |
| **7611** | road form setter |
| **7362** | road freight brakeman/woman |
| **7302** | road gang foreman/woman |
| **7521** | road grader operator |
| **2264** | road grading inspector |
| **1411** | road maintenance clerk |
| **7302** | road maintenance foreman/woman |
| **7621** | road maintenance worker |
| **7621** | road maintenance worker - public works |
| **7521** | road mixer operator |
| **7611** | road mixer operator helper |
| **2264** | road paving inspector |
| **7521** | road planer operator |
| **7521** | road roller operator |
| **2262** | road safety inspector |
| **7522** | road snowplough operator - public works |
| **7611** | road spray truck helper |
| **2231** | road technician |
| **9522** | road test mechanic |
| **2231** | road traffic technician |
| **5212** | road transport equipment restoration technician - museum |
| **4423** | road transport inspector |
| **6552** | road transport terminal attendant |
| **8231** | roadheader operator |
| **8411** | roadmaker - underground mining |
| **7302** | roadmaster - railway |
| **2133** | roadway lighting design engineer |
| **9231** | roaster operator - primary metal processing |
| **9536** | robotic paint sprayer attendant |
| **9536** | robotic spray paint system attendant |
| **2132** | robotics engineer |
| **2232** | robotics servicing technician |
| **2232** | robotics systems installer and repairer |
| **2232** | robotics technician |
| **2232** | robotics technologist |
| **6532** | rock climbing guide |
| **9211** | rock crusher foreman/woman - primary metal and mineral products processing |
| **9411** | rock crusher tender - primary metal and mineral products processing |
| **9211** | rock crushing foreman/woman - primary metal and mineral products processing |
| **8614** | rock duster - underground mining |
| **2212** | rock mechanics technician |
| **6732** | rock or brick sandblaster |
| **5133** | rock singer |
| **9619** | rock splitter |
| **9414** | rock wool operator - stone products |
| **8231** | rockbolter |
| **2244** | rocket components mechanic - avionics |
| **9411** | rod drawer - primary metal processing |
| **9611** | rod drawer helper - primary metal processing |
| **9411** | rod mill operator - primary metal processing |
| **9611** | rod puller and coiler - primary metal processing |
| **9416** | rod-bending machine operator - metal fabrication |
| **0821** | rodent breeder |
| **2263** | rodent control inspector |
| **2263** | rodent control officer |
| **0821** | rodent raiser |
| **5232** | rodeo driver |
| **5232** | rodeo horse rider |
| **5251** | rodeo performer |
| **7612** | rodman/woman - land surveying |
| **7236** | rodworker apprentice |
| **3232** | rolfer |
| **3232** | rolfing movement teacher |
| **9416** | roll bender operator - metal products manufacturing |
| **9423** | roll builder - rubber products manufacturing |
| **7311** | roll builder-repairer - rolling mills |
| **9214** | roll building foreman/woman - rubber manufacturing |
| **9214** | roll building supervisor - rubber products manufacturing |
| **9616** | roll carrier - textile processing |
| **9615** | roll changer - rubber manufacturing |
| **9423** | roll coverer - rubber products manufacturing |
| **9433** | roll finisher - paper |
| **9416** | roll forger |
| **9423** | roll grinder - rubber products manufacturing |
| **9616** | roll hauler - textile processing |
| **9416** | roll operator - metal fabrication |
| **9422** | roll operator - plastic manufacturing |
| **9423** | roll operator - rubber products manufacturing |
| **9411** | roll setter - primary metal processing |
| **7311** | roll setter - rolling mills |
| **9211** | roll shop operations coach - steel mill |
| **9435** | roll slicing machine tender - paper converting |
| **9411** | roll table operator - primary metal processing |
| **9522** | roll tester - motor vehicle manufacturing |
| **9418** | roll threader operator |
| **9616** | roll turner - textile processing |
| **9433** | roll wrapper - paper |
| **9411** | roller - primary metal processing |
| **9537** | roller bearing assembly inspector |
| **9616** | roller cleaner - textile processing |
| **7311** | roller coverer - textile manufacturing |
| **9472** | roller engraver - printing |
| **9441** | roller machine tender - tannery |

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| **9461** | roller mill tender - food and beverage processing |
| **7521** | roller operator |
| **9411** | roller plate mill - primary metal processing |
| **9441** | roller printer - textile manufacturing |
| **7311** | roller repairer - industrial equipment |
| **9535** | roller repairer - plastic manufacturing |
| **9423** | roller repairer - rubber products manufacturing |
| **9535** | roller repairman/woman - plastic manufacturing |
| **9423** | roller repairman/woman - rubber products manufacturing |
| **9461** | roller room equipment tender - food and beverage processing |
| **5254** | rollerblading instructor |
| **9411** | roller-leveller operator |
| **9614** | rollerman/woman - wood processing |
| **5254** | roller-skating instructor |
| **9416** | roll-forming machine setter - metalworking |
| **9211** | rolling foreman/woman - primary metal processing |
| **9416** | rolling machine operator - metal forging |
| **9435** | rolling machine tender - paper converting |
| **9611** | rolling mill catcher - primary metal processing |
| **9231** | rolling mill control operator |
| **9231** | rolling mill control operator - primary metal processing |
| **9211** | rolling mill foreman/woman - primary metal processing |
| **9411** | rolling mill guide setter - metal processing |
| **9611** | rolling mill helper - primary metal processing |
| **9611** | rolling mill labourer - primary metal processing |
| **9411** | rolling mill operator - mineral and metal processing |
| **9411** | rolling mill preparer - primary metal processing |
| **9611** | rolling mill worker |
| **9611** | rolling mill worker - primary metal processing |
| **9437** | rolling pin maker - woodworking |
| **9616** | roll-mat machine feeder - textile processing |
| **9435** | roll-slitting machine tender - paper converting |
| **9411** | roll-straightener operator - primary metal processing |
| **8231** | roof bolter |
| **7294** | roof painter |
| **7205** | roof shinglers supervisor |
| **7205** | roof shingling supervisor |
| **7291** | roof tiler |
| **7291** | roofer |
| **7291** | roofer and waterproofer |
| **7611** | roofer helper |
| **7291** | roofer trainee |
| **7205** | roofer-contractor (except metal roofs) |
| **7205** | roofers (except sheet metal roofs) foreman/woman |
| **7205** | roofers and shinglers supervisor |
| **7205** | roofers foreman/woman |
| **7205** | roofing contractor |
| **7205** | roofing contractor (except sheet metal roofs) |
| **7291** | roofing mechanic |
| **7205** | roofing supervisor |
| **6731** | room attendant |
| **6731** | room cleaner |
| **6525** | room clerk |
| **6525** | room clerk - hotel |
| **6721** | room flipper |
| **6721** | room porter |
| **6525** | room service clerk - hotel |
| **6513** | room service waiter/waitress |
| **0632** | rooming house keeper |
| **0632** | rooms division director |
| **0632** | rooms manager - accommodation services |
| **7384** | rope access technician (RAT) |
| **9441** | rope coiler |
| **7311** | rope machine setter - textile manufacturing |
| **9442** | rope maker - textiles |
| **6722** | rope tow attendant |
| **6722** | rope tow operator |
| **9442** | rope twister |
| **9442** | rope-coiling machine tender - textiles |
| **9442** | rope-twisting machine tender |
| **0822** | rose grower |
| **9537** | rotary brush-making machine operator |
| **8411** | rotary driller helper - raise mining |
| **7611** | rotary driller helper - water well |
| **7372** | rotary drilling machine operator |
| **7372** | rotary drilling machine operator - surface mining and quarrying |
| **9232** | rotary furnace tender - chemical processing |
| **9411** | rotary kiln operator - primary metal and mineral products processing |
| **9411** | rotary kiln tender - primary metal processing |
| **7381** | rotary offset press operator |
| **7381** | rotary press operator |
| **8231** | rotary raise driller - underground mining |
| **8411** | rotary raise driller helper |
| **9416** | rotary shear operator - metal fabrication |
| **9526** | rotary tiller assembler |
| **7521** | rotary trencher operator |
| **9417** | rotary-head milling machine set-up operator |
| **9525** | rotating field coil assembler - industrial electrical equipment |
| **9422** | rotational moulding operator |
| **6321** | rotisserie chef |
| **9472** | rotogravure cylinder technician |
| **7303** | rotogravure foreman/woman |
| **7381** | rotogravure press operator - printing |
| **9441** | rotogravure press operator - textile manufacturing |

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| **7303** | rotogravure press operators foreman/woman - printing |
| **9472** | rotogravure press technician |
| **7381** | rotogravure pressman/woman - printing |
| **7303** | rotogravure pressmen/women foreman/woman - printing |
| **9412** | Roto-lift operator - foundry |
| **7381** | rotoprinter - printing |
| **9525** | rotor assembler - industrial electrical equipment |
| **9525** | rotor coil former - industrial electrical equipment |
| **9525** | rotor core assembler - industrial electrical equipment |
| **7315** | rotorcraft aircraft maintenance engineer (AME) |
| **7315** | rotorcraft maintenance engineer |
| **7315** | rotorcraft mechanical systems technician |
| **9226** | rototiller assembly foreman/woman |
| **9536** | rough benchwork spray painter |
| **7271** | rough carpenter |
| **9437** | rough mill operator - woodworking |
| **7294** | rough painter - construction |
| **9437** | rough planer operator - woodworking |
| **9536** | rough spray painter - manufacturing |
| **9411** | roughing mill operator - metal processing |
| **8615** | roughneck |
| **8615** | roughneck - offshore drilling rig |
| **8615** | roughneck - oil and gas drilling |
| **6533** | roulette croupier |
| **7301** | roundhouse foreman/woman - railway |
| **9473** | rounding and backing machine operator - printing |
| **8615** | roustabout |
| **8615** | roustabout - offshore drilling rig |
| **8615** | roustabout - oil and gas drilling |
| **7514** | route driver |
| **7622** | route driver helper |
| **1215** | route planning supervisor |
| **6552** | route supply and return clerk |
| **9417** | router operator - metal machining |
| **9437** | router operator - woodworking |
| **1511** | routing clerk |
| **9441** | rover - textile manufacturing |
| **9441** | roving frame tender - textile manufacturing |
| **9441** | roving machine operator - textile manufacturing |
| **9447** | roving weight gauger - textiles |
| **5251** | rower |
| **0431** | Royal Canadian Mounted Police (RCMP) commissioner |
| **4311** | Royal Canadian Mounted Police (RCMP) officer |
| **4168** | royal commission officer |
| **0512** | royalties manager - arts |
| **1315** | royalty broker |
| **2122** | RPF (registered professional forester) |
| **3012** | RPN (registered psychiatric nurse) |
| **3214** | RRT (registered respiratory therapist) |
| **2255** | RS (remote sensing) application specialist |
| **2255** | RS (remote sensing) technician |
| **2255** | RS (remote sensing) technologist |
| **3215** | RTNM (registered technologist in nuclear medicine) |
| **3215** | RTR (registered technologist in radiography) |
| **3215** | RTT (radiation therapy technologist) |
| **9414** | rubber abrasive wheel grinder |
| **9414** | rubber abrasive wheel maker |
| **9615** | rubber and canvas footwear dipper |
| **9441** | rubber and vinyl coater operator - textile manufacturing |
| **9423** | rubber band cutter |
| **9423** | rubber belt buffer |
| **9423** | rubber belt builder |
| **9423** | rubber belt maker |
| **9423** | rubber boot cutter |
| **9423** | rubber boot maker |
| **9423** | rubber boot maker, moulded |
| **9423** | rubber cement mixer |
| **9423** | rubber closure installer |
| **9423** | rubber coater |
| **9615** | rubber compound weigher |
| **9615** | rubber compounder |
| **9423** | rubber cord assembler |
| **9423** | rubber cord cutter |
| **9423** | rubber cord splicer |
| **9423** | rubber curer - rubber products manufacturing |
| **9423** | rubber cushion inspector |
| **9423** | rubber cutter |
| **9423** | rubber foam cushion fabricator |
| **9423** | rubber footwear maker |
| **9214** | rubber footwear moulding supervisor |
| **9423** | rubber footwear parts buffer |
| **9423** | rubber footwear repairer |
| **9423** | rubber footwear tread machine tender |
| **9214** | rubber fuel tank foreman/woman |
| **9423** | rubber gasket gluer |
| **9214** | rubber gasket making foreman/woman |
| **9423** | rubber gear moulder |
| **9423** | rubber glove maker |
| **9423** | rubber golf ball cover treater |
| **9423** | rubber goods assembler |
| **9423** | rubber goods cutter-finisher |
| **9214** | rubber goods dipping foreman/woman |
| **9214** | rubber goods dipping supervisor |
| **9423** | rubber goods inspector |
| **9423** | rubber goods machine operator |
| **9423** | rubber goods press operator |
| **9423** | rubber goods repairer |
| **9615** | rubber goods seamer |
| **9423** | rubber grinder |
| **9423** | rubber hose builder |
| **9214** | rubber hose building supervisor |
| **9615** | rubber hose checker |

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| 9214 | rubber hose foreman/woman |
| 9214 | rubber hose inspection and testing foreman/woman |
| 9423 | rubber lining installer |
| 9615 | rubber manufacturing roll changer |
| 9423 | rubber mill operator |
| 9423 | rubber moulder operator - rubber products manufacturing |
| 9423 | rubber press operator |
| 9423 | rubber processing machine operator |
| 6411 | rubber product sales representative - wholesale |
| 9423 | rubber products assembler |
| 9214 | rubber products inspection supervisor |
| 9423 | rubber products inspector |
| 9214 | rubber products inspector foreman/woman |
| 9214 | rubber products inspectors supervisor |
| 9214 | rubber products manufacturing foreman/woman |
| 9615 | rubber products manufacturing labourer |
| 9214 | rubber products manufacturing supervisor |
| 9423 | rubber products polisher |
| 9615 | rubber products seamer |
| 9423 | rubber products tester |
| 9423 | rubber products washer-dryer |
| 0911 | rubber products-manufacturing plant manager |
| 9423 | rubber roll grinding inspector |
| 9423 | rubber shoe cementer |
| 9423 | rubber shoe strap maker |
| 9423 | rubber slab inspector, rubber |
| 9423 | rubber snowtrack builder |
| 9423 | rubber splitter - rubber products manufacturing |
| 9423 | rubber squeegee splicer |
| 9423 | rubber stamp maker |
| 9423 | rubber stripper and applier |
| 9423 | rubber trimmer |
| 9423 | rubber tube vulcanizer tender |
| 9423 | rubber tubing splicer |
| 9441 | rubber-coating and vinyl-coating machine operator - textile manufacturing |
| 9615 | rubber-cutting machine feeder |
| 7311 | rubberizing machine mechanic |
| 9423 | rubber-strap-folding machine tender |
| 6732 | rug cleaner |
| 6316 | rug cleaning foreman/woman - dry cleaning |
| 5243 | rug designer |
| 7295 | rug installer |
| 9446 | rug joiner |
| 7295 | rug layer |
| 9441 | rug setter - textile manufacturing |
| 9446 | rug sewer |
| 9423 | rug underlay machine operator - rubber products manufacturing |
| 9442 | rug weaver |
| 9441 | rug-coating machine operator |
| 5244 | rughooker |
| 9441 | rug-yarn-setting machine operator - textile manufacturing |
| 9471 | ruling machine operator - printing |
| 1513 | runner - courier service |
| 0731 | runway manager |
| 7302 | runway paving foreman/woman |
| 0411 | rural and Aboriginal housing regional manager - government services |
| 0411 | rural and Aboriginal housing services district director - government services |
| 0411 | rural and Native housing regional manager - government services |
| 0411 | rural and Native housing services district director - government services |
| 0212 | rural development manager |
| 4163 | rural development officer |
| 0212 | rural development program manager |
| 2121 | rural ecologist |
| 2133 | rural electrification engineer |
| 0411 | rural housing programs director - government services |
| 1512 | rural mail carrier |
| 4169 | rural sociologist |
| 7246 | rural telephone maintainer |
| 9536 | rustproof coater - motor vehicle manufacturing |
| 9536 | rustproof sprayer - motor vehicle manufacturing |
| 9536 | rustproofer, motor vehicle |

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| 9445 | saddle cutter - leather products manufacturing |
| 9437 | saddle machine tender - woodworking |
| 9473 | saddle stitching machine operator - printing |
| 9473 | saddle stitching machine set-up operator - printing |
| 7384 | safe and vault installer-servicer |
| 7384 | safe and vault repairer |
| 7384 | safe and vault servicer |
| 7384 | safe and vault technician |
| 7384 | safe expert |
| 7384 | safe maker |
| 2263 | safety and sanitary inspector - public and environmental health |
| 1434 | safety deposit box clerk |
| 6314 | safety deposit box supervisor |
| 9537 | safety earmuffs assembler |
| 2141 | safety engineer |
| 6221 | safety equipment salesperson |
| 9535 | safety goggle assembly repairer - plastic products manufacturing |
| 2263 | safety officer |
| 2264 | safety officer - construction |

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| 4311 | safety patrol officer - police |
| 9418 | safety pin machine set-up operator |
| 2263 | safety practitioner |
| 9537 | safety razor blade honer |
| 9537 | safety razor blade inspector |
| 9537 | safety razor blade maker |
| 2263 | safety supervisor - occupational health and safety |
| 9414 | saggar moulder - clay products |
| 9611 | saggar placer - clay products manufacturing |
| 5245 | sail lay-out and patternmaker |
| 5245 | sail maker |
| 5251 | sailboarder |
| 9531 | sailboat assembler |
| 9445 | sailcloth cutter - fabric products manufacturing |
| 4216 | sailing instructor |
| 6711 | salad and sandwich maker |
| 6711 | salad bar attendant |
| 9461 | salad dressing finisher |
| 6711 | salad maker |
| 1432 | salary administration officer |
| 1121 | salary analyst |
| 4162 | salary analyst - economic policy |
| 0112 | salary research and administration manager |
| 0601 | sales administrator |
| 6421 | sales advisor - retail |
| 0124 | sales agency marketing division director |
| 6524 | sales agent - railway |
| 6411 | sales agent - wholesale (non-technical) |
| 4163 | sales analyst |
| 0124 | sales and advertising manager |
| 0015 | sales and advertising vice-president - trade, broadcasting and other services |
| 0601 | sales and distribution manager |
| 0124 | sales and marketing director |
| 0124 | sales and marketing manager |
| 1123 | sales and promotions co-ordinator |
| 0124 | sales and publicity manager |
| 6421 | sales and rental clerk |
| 6421 | sales assistant |
| 6421 | sales associate |
| 6235 | sales associate - personal banking |
| 6421 | sales associate - retail |
| 1111 | sales auditor - finances |
| 6221 | sales broker - wholesale |
| 6421 | sales clerk |
| 6211 | sales clerk supervisor |
| 6421 | sales consultant - retail |
| 6421 | sales consultant - retirement homes |
| 6411 | sales consultant - wholesale (non-technical) |
| 6411 | sales co-ordinator - wholesale (non-technical) |
| 0124 | sales director - computer marketing development |
| 0601 | sales director (except retail and wholesale) |
| 0601 | sales district manager (except insurance and real estate) |
| 6221 | sales engineer |
| 6221 | sales engineer - technical support |
| 6411 | sales executive - wholesale (non-technical) |
| 0015 | sales general manager - trade, broadcasting and other services |
| 6421 | sales greeter |
| 0601 | sales manager (except retail and wholesale) |
| 0601 | sales manager, package tours |
| 6235 | sales officer - financial |
| 6421 | sales order clerk |
| 0601 | sales planning manager |
| 6421 | sales promotion clerk |
| 0124 | sales promotion manager |
| 1212 | sales records supervisor |
| 6421 | sales representative - retail |
| 6411 | sales representative - wholesale (non-technical) |
| 1241 | sales secretary |
| 2161 | sales statistician |
| 6211 | sales supervisor |
| 6211 | sales supervisor - retail |
| 0016 | sales vice-president - goods production, utilities, transportation and construction |
| 0016 | sales vice-president - pulp and paper manufacturing |
| 0015 | sales vice-president - trade, broadcasting and other services |
| 6421 | salesperson - retail |
| 6411 | salesperson - wholesale (non-technical) |
| 0823 | salmon farmer |
| 0823 | salmon grower |
| 9411 | salt compactor operator |
| 9411 | salt compressor operator |
| 9411 | salt crusher |
| 9211 | salt milling supervisor |
| 9617 | salt packer |
| 9411 | salt processor |
| 9411 | salt refiner |
| 9611 | salt screening labourer |
| 7522 | salt truck operator |
| 7522 | salt truck operator - public works |
| 6222 | salvage buyer |
| 1522 | salvage clerk |
| 0621 | salvage dealer |
| 7384 | salvage diver |
| 8221 | salvage foreman/woman - mining |
| 9415 | salvage glass inspector |
| 9523 | salvage operator - electronic equipment manufacturing |
| 9437 | salvage sawyer - woodworking |
| 9433 | salvage winder operator - papermaking |
| 4217 | Salvation Army captain |
| 4154 | Salvation Army commissioned officer |
| 4217 | Salvation Army field worker |
| 4217 | Salvation Army worker |

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| **9447** | sample checker - textiles |
| **9619** | sample clerk - fabric products |
| **1522** | sample clerk - storage and warehousing |
| **1522** | sample control clerk |
| **9445** | sample cutter |
| **9445** | sample cutter - fabric, fur and leather products manufacturing |
| **1513** | sample distributor - courier service |
| **9442** | sample knitter |
| **9613** | sample preparer - chemical processing |
| **9447** | sample preparer - textiles |
| **9441** | sample printer - textile manufacturing |
| **9217** | sample room foreman/woman - fabric, fur and leather products manufacturing |
| **9217** | sample room foreman/woman - leather products |
| **9619** | sample room worker |
| **9446** | sample sewer |
| **9616** | sample steamer |
| **9415** | sample tester - primary metal and mineral products processing |
| **9442** | sample weaver |
| **9613** | sampler - chemical processing |
| **9617** | sampler - food and beverage processing |
| **9415** | sampler - primary metal and mineral products processing |
| **9447** | sampler - textiles |
| **9214** | sampling supervisor - rubber and plastic products manufacturing |
| **2264** | sand and gravel inspector - construction |
| **9412** | sand control man/woman - foundry |
| **9412** | sand control operator - foundry |
| **9412** | sand coremaker |
| **8221** | sand fill boss - underground mining |
| **8411** | sand fill man/woman |
| **8411** | sand fill man/woman - hydraulic stowing |
| **9412** | sand floor moulder - foundry |
| **9412** | sand mill operator - foundry |
| **9412** | sand moulder |
| **9412** | sand moulder - foundry |
| **9412** | sand processing operator - foundry |
| **7522** | sand spreader operator |
| **7522** | sand spreader operator - public works |
| **9412** | sand system operator - foundry |
| **9414** | sandblast operator - stone products |
| **6732** | sandblaster |
| **9612** | sandblaster - metal products manufacturing |
| **9612** | sandblaster operator - metal products manufacturing |
| **6732** | sandblasting building cleaner |
| **9612** | sandblasting machine tender - metal products manufacturing |
| **9437** | sander, smoking pipes - woodworking |
| **9533** | sanding inspector - woodworking |
| **9437** | sanding machine feeder - woodworking |
| **9461** | sanding machine tender - food and beverage processing |
| **7522** | sanding truck operator - public works |
| **9412** | sand-slinger operator - foundry |
| **6711** | sandwich artist |
| **6711** | sandwich maker |
| **6711** | sandwich, salad and dessert maker |
| **2263** | sanitary department inspector - environmental health |
| **2131** | sanitary engineer |
| **9212** | sanitary service foreman/woman |
| **0912** | sanitary sewer service manager |
| **2263** | sanitary standards inspector |
| **2131** | sanitation engineer |
| **7621** | sanitation man/woman |
| **7522** | sanitation truck driver |
| **7621** | sanitation worker |
| **5232** | Santa Claus/Mrs. Claus |
| **9437** | sash and door end matcher - woodworking |
| **9533** | sash and door grader, wood |
| **9533** | sash and door inspector |
| **9533** | sash and door inspector - millwork manufacturing |
| **9533** | sash and door manufacturing repairman/woman |
| **9227** | sash and door shop foreman/woman |
| **2133** | satellite antenna engineer |
| **7441** | satellite antenna installer |
| **2242** | satellite antenna servicer |
| **2147** | satellite data transmission engineer |
| **7441** | satellite dish installer |
| **2133** | satellite instrumentation engineer |
| **7246** | satellite receiver installer |
| **7246** | satellite receiving equipment installer |
| **2174** | satellite scientific telecommunications programmer |
| **2241** | satellite technician |
| **2241** | satellite technologist |
| **7247** | satellite television technician |
| **2241** | satellite verification technologist |
| **9534** | satin finisher - furniture finishing and refinishing |
| **9613** | saturating machine feeder - chemical processing |
| **9421** | saturating machine tender - chemical processing |
| **9441** | saturator - textile manufacturing |
| **9421** | saturator operator |
| **6321** | saucier |
| **0651** | sauna manager |
| **6742** | sauna room attendant |
| **9617** | sausage casing curer |
| **9461** | sausage dryer and smoker |
| **9617** | sausage linker - food and beverage processing |
| **9461** | sausage maker |
| **9617** | sausage tier - food and beverage processing |
| **9617** | sausage wrapper - food and beverage processing |

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| **9461** | sausage-peeling machine tender |
| **6551** | savings account teller - financial services |
| **1434** | savings accounts clerk - financial sector |
| **6314** | savings accounts supervisor |
| **6314** | savings and credit service supervisor |
| **6314** | savings supervisor |
| **7384** | saw doctor |
| **7384** | saw filer |
| **7384** | saw fitter |
| **7384** | saw fitter-filer |
| **9418** | saw knife miller |
| **7384** | saw maker |
| **9416** | saw operator - metal fabrication |
| **9431** | saw operator - sawmill |
| **9437** | saw operator - woodworking |
| **7384** | saw repairer |
| **7384** | saw repairman/woman |
| **9614** | saw tailer - wood processing |
| **9431** | sawdust reclaim operator - sawmill |
| **9431** | sawing machine operator - sawmill |
| **9437** | sawing machine operator - woodworking |
| **9437** | sawing machine tender - woodworking |
| **0432** | sawmill fire chief |
| **9215** | sawmill foreman/woman |
| **9614** | sawmill labourer |
| **9431** | sawmill machine operator |
| **7384** | sawmill saw fitter |
| **9215** | sawmill supervisor |
| **9614** | sawmill worker |
| **7384** | sawsmith |
| **9431** | sawyer - sawmill |
| **9437** | sawyer - woodworking |
| **9431** | sawyer, shakes - sawmill |
| **7611** | scaffold erector helper |
| **7445** | scaffold repairer |
| **7611** | scaffolder |
| **9414** | scagliola caster - stone products |
| **9537** | scale assembler |
| **9227** | scale assembly foreman/woman |
| **7384** | scale calibrator |
| **9537** | scale inspector |
| **9537** | scale maker |
| **7445** | scale mechanic |
| **7445** | scale repairer |
| **9411** | scalehouse operator - zinc melting |
| **2223** | scaler - forestry |
| **9611** | scaler - primary metal processing |
| **2223** | scaler technician - logging |
| **2223** | scalers supervisor |
| **2223** | scaling co-ordinator - logging |
| **8262** | scallop dredger |
| **9463** | scallop shucker - fish and seafood processing |
| **6562** | scalp treatment specialist |
| **9611** | scalping helper - primary metal processing |
| **1423** | scanner operator - desktop publishing |
| **9472** | scanner operator - printing |
| **1423** | scanning machine operator - desktop publishing |
| **9434** | scarf gluer - wood processing |
| **9434** | scarfer tender - wood processing |
| **9418** | scarfer-borer - metal products manufacturing |
| **9418** | scarfing and boring machine operator |
| **9434** | scarfing machine tender - wood processing |
| **8422** | scarification equipment operator |
| **8422** | scarification equipment operator - forestry |
| **7521** | scarifier operator |
| **8422** | scarifier operator - silviculture |
| **5243** | scene designer |
| **5243** | scene designer assistant |
| **5227** | scene shifter |
| **5136** | scenery painter |
| **5227** | scenic artist - motion pictures, broadcasting and performing arts |
| **5227** | scenic constructor |
| **5227** | scenic constructor - motion pictures, broadcasting and performing arts |
| **5227** | scenic painter - motion pictures, broadcasting and performing arts |
| **5136** | scenic painter - visual arts |
| **1526** | schedule analyst |
| **1523** | schedule clerk |
| **1526** | schedule control clerk |
| **1526** | schedule maker |
| **1526** | schedule writer |
| **1526** | schedule writer, transportation |
| **1526** | scheduler - transit system |
| **1523** | scheduling clerk |
| **1215** | scheduling clerks supervisor |
| **2233** | scheduling technician - manufacturing |
| **4033** | school adjustment officer |
| **4166** | school adjustment specialist |
| **0422** | school board administrator |
| **0413** | school board services manager |
| **0011** | school board trustee |
| **7512** | school bus driver |
| **7512** | school bus driver - special needs passengers |
| **7305** | school bus drivers supervisor |
| **4033** | school counsellor |
| **6541** | school crossing guard |
| **6733** | school custodian |
| **0422** | school district assistant superintendent |
| **0422** | school district superintendent |
| **4033** | school guidance department head |
| **3012** | school health nurse |
| **0413** | school inspection director - public administration |
| **4166** | school inspector |
| **6733** | school janitor |
| **4311** | school liaison officer - police |
| **4413** | school lunchroom supervisor |
| **0714** | school maintenance manager |
| **3012** | school nurse |

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| **0651** | school of art manager |
| **0421** | school of nursing dean |
| **0421** | school of nursing director |
| **0421** | school of technology dean |
| **0421** | school of technology director |
| **0421** | school of technology manager |
| **0422** | school principal |
| **4151** | school psychologist |
| **4311** | school safety officer - police |
| **1241** | school secretary |
| **0413** | school services director |
| **0413** | school services director - public administration |
| **4152** | school social worker |
| **4166** | school subjects consultant |
| **0422** | school superintendent |
| **4031** | school teacher - secondary school |
| **0422** | school vice-principal |
| **5112** | science and technology curator |
| **5112** | science and technology museum curator |
| **4166** | science co-ordinator - education |
| **0421** | science dean |
| **4031** | science high school teacher |
| **4031** | science teacher - secondary school |
| **0014** | scientific association chairperson |
| **4161** | scientific consultant |
| **5122** | scientific editor |
| **5244** | scientific glass apparatus blower |
| **4169** | scientific handwriting expert |
| **5241** | scientific illustrator |
| **7384** | scientific instrument calibrator |
| **6221** | scientific instrument sales representative |
| **5111** | scientific librarian |
| **5221** | scientific photographer |
| **2174** | scientific programmer |
| **0212** | scientific research department manager |
| **0212** | scientific research director |
| **0212** | scientific research manager |
| **5125** | scientific translator |
| **5121** | scientific writer |
| **8231** | scoop operator - underground mining |
| **8231** | scooptram operator |
| **8231** | scooptram operator - underground mining |
| **5253** | scoreboard operator |
| **5253** | scorekeeper |
| **9435** | scorer - paper converting |
| **9441** | scouring machine operator |
| **7533** | scow captain |
| **7533** | scow operator |
| **9431** | scrag-saw operator - sawmill |
| **6222** | scrap buyer |
| **9611** | scrap machine helper - primary metal processing |
| **9611** | scrap metal baler - primary metal processing |
| **0621** | scrap metal dealer |
| **9611** | scrap metal loader |
| **9611** | scrap metal processor - primary metal processing |
| **9411** | scrap metal remelter - primary metal processing |
| **6421** | scrap metal salesperson |
| **9411** | scrap metal shredder |
| **9411** | scrap metal shredder operator - primary metal processing |
| **9611** | scrap metal sorter and baler - primary metal processing |
| **9211** | scrap metal yard foreman/woman |
| **9614** | scrap piler - wood processing |
| **9211** | scrap preparation foreman/woman - primary metal and mineral products processing |
| **9211** | scrap preparation foreman/woman - primary metal processing |
| **9423** | scrap rubber grinder - recycling |
| **9611** | scrap shredder helper |
| **9611** | scrap yard worker - primary metal processing |
| **7521** | scraper operator |
| **9421** | scratcher tender |
| **9441** | scray machine feeder |
| **9523** | screen aluminizer, picture tube assemblies |
| **9614** | screen cleaner - pulp and paper |
| **9615** | screen cleaner - rubber products manufacturing |
| **9471** | screen print operator |
| **5244** | screen printing artisan |
| **9619** | screen printing machine feeder |
| **9471** | screen printing machine operator - printing |
| **9441** | screen printing operator - textile manufacturing |
| **9619** | screen printing paster |
| **9215** | screen room foreman/woman - pulp and paper |
| **9432** | screen room operator - pulp and paper |
| **5223** | screen stencil cutter - graphic arts |
| **9432** | screen tender - pulp and paper |
| **5121** | screen writer |
| **9421** | screener - chemical processing |
| **9611** | screening equipment helper - primary metal and mineral products processing |
| **9615** | screening machine feeder - rubber products manufacturing |
| **9461** | screening machine tender - food and beverage processing |
| **9472** | screenmaker |
| **9432** | screenman/woman - pulp and paper |
| **9441** | screen-printing machine operator - textile manufacturing |
| **9417** | screw machine operator - metal machining |
| **9417** | screw machine set-up operator |
| **9417** | screw threader |
| **9418** | scribing machine tender |
| **5121** | script and dialogue writer |
| **5227** | script assistant |

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| 5122 | script editor |
| 5227 | script person - motion pictures and broadcasting |
| 5226 | script supervisor |
| 5121 | script writer |
| 9418 | scroll machine tender |
| 9437 | scroll saw operator - woodworking |
| 9442 | scroll-quilting machine operator |
| 3012 | scrub nurse |
| 9537 | scrubber brush assembler |
| 9537 | scrubber brush maker |
| 9411 | scrubber operator |
| 9611 | scrubber tender - mineral products processing |
| 4311 | scuba diver - police |
| 4311 | scuba-diving specialist - police |
| 9441 | scudder - hide and pelt processing |
| 5136 | sculptor |
| 5136 | sculptor-modeller |
| 5112 | sculpture conservator |
| 4011 | sculpture professor - university |
| 5136 | sculpture teacher (except primary, secondary, post-secondary education) |
| 5136 | sculpturing teacher (except primary, secondary, post-secondary education) |
| 9616 | scutcher tender |
| 8613 | sea farm attendant |
| 8613 | sea farm worker |
| 2212 | sea-bottom technologist |
| 2221 | sea-farming technologist |
| 2212 | sea-floor technologist |
| 6421 | seafood counter clerk |
| 9463 | seafood preparer - fish and seafood processing |
| 6421 | seafood sales clerk |
| 6421 | seafood sales clerk - retail |
| 8442 | seal hunter - hunting and trapping |
| 9421 | sealant operator - chemical processing |
| 8442 | sealer |
| 9521 | sealer - aircraft assembly |
| 8442 | sealer - hunting and trapping |
| 9522 | sealer operator - motor vehicle manufacturing |
| 9435 | sealing machine tender - paper converting |
| 7611 | seam caulker - construction |
| 7532 | seaman/woman |
| 9537 | seamless ball moulder |
| 9442 | seamless hosiery knitter |
| 9411 | seamless steel billet piercer - primary metal processing |
| 9411 | seamless tube roller - primary metal processing |
| 6342 | seamstress |
| 0433 | search and rescue captain |
| 5254 | search and rescue crew member - sports and recreation |
| 7384 | search and rescue diver |
| 1511 | search clerk, lost postal packages |
| 5227 | searchlight operator |
| 0632 | seasonal resort manager |
| 8616 | seasonal swamper - logging |
| 8616 | seasonal swamper - logging forestry |
| 8616 | seasonal tree planter |
| 7621 | seasonal worker - public works |
| 9617 | seasoning mixer - food and beverage processing |
| 9522 | seat assembler - motor vehicle manufacturing |
| 9537 | seat belt assembly inspector |
| 7611 | seat installer - construction |
| 8262 | seaweed dragger |
| 8613 | seaweed gatherer |
| 8262 | seaweed harvesting machine operator |
| 6321 | second chef |
| 6322 | second cook |
| 5227 | second costumes assistant |
| 2273 | second deck officer |
| 2274 | second engineer |
| 2274 | second engineer - water transport |
| 9433 | second hand, paper machine |
| 0413 | second language program director |
| 0433 | second lieutenant |
| 2273 | second mate |
| 2273 | second mate - inland waters |
| 2271 | second officer - air transport |
| 4168 | second secretary - foreign service |
| 4031 | secondary school department head |
| 0413 | secondary school education director |
| 5211 | secondary school librarian |
| 0422 | secondary school principal |
| 0413 | secondary school programs director |
| 4031 | secondary school reading clinician |
| 4031 | secondary school teacher |
| 4413 | secondary school teacher's aide |
| 4413 | secondary school teacher's assistant |
| 4031 | secondary school vocational teacher |
| 9241 | second-class stationary engineer |
| 4021 | second-language instructor - language school |
| 9241 | second-lass power engineer |
| 9447 | seconds inspector-grader |
| 4311 | secret service officer |
| 0421 | secretarial college director |
| 1241 | secretary (except legal and medical) |
| 0012 | secretary to the council - government services |
| 1241 | secretary-clerk |
| 7622 | section labourer - railway |
| 7245 | section lineman/woman - telecommunications |
| 0621 | section manager - retail |
| 7531 | section worker - railway |
| 1113 | securities agent |
| 1112 | securities analyst |

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| **1114** | securities analyst - personal finances |
| **0121** | securities and investment manager |
| **1434** | securities clerk - financial sector |
| **1114** | securities counsellor |
| **0121** | securities manager |
| **1113** | securities representative |
| **1112** | securities research analyst |
| **0121** | securities research director |
| **0121** | securities research manager |
| **1113** | securities sales agent |
| **0121** | securities sales director |
| **1113** | securities salesman/woman |
| **1113** | securities trader |
| **1114** | securities underwriter |
| **6541** | security alarm system consultant |
| **2242** | security alarms installer |
| **2242** | security alarms technician |
| **6541** | security analysis officer - postal service |
| **6541** | security and investigations officer |
| **4311** | security constable - police |
| **6541** | security consultant (except computer systems) |
| **0114** | security department manager |
| **6541** | security guard |
| **6541** | security guard - explosives |
| **6316** | security guard supervisor |
| **6541** | security investigator |
| **0114** | security manager |
| **6541** | security officer |
| **4311** | security officer - police |
| **0125** | security service manager |
| **6411** | security services sales consultant |
| **6411** | security services sales consultant - wholesale |
| **6411** | security services sales representative |
| **6411** | security services sales representative - wholesale |
| **6541** | security specialist (except computer systems) |
| **6411** | security system salesperson |
| **7445** | security systems technician |
| **2113** | sedimentary geologist |
| **2113** | sedimentologist |
| **8252** | seed cleaning service contractor |
| **8422** | seed cone collector |
| **8422** | seed cone picker |
| **9465** | seed corn grader |
| **2222** | seed crop inspector |
| **0821** | seed farmer |
| **2222** | seed grains inspector |
| **0821** | seed grower |
| **9619** | seed packager |
| **0821** | seed producer |
| **2221** | seed technologist |
| **8252** | seeding contractor |
| **8441** | seiner deckhand |
| **8262** | seiner fisherman/woman |

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| **8412** | seismic buried facilities locator |
| **2212** | seismic exploration line crew co-ordinator |
| **2212** | seismic exploration observer |
| **8615** | seismic GPS rover |
| **8615** | seismic line cutter |
| **7372** | seismic prospecting driller |
| **2212** | seismic prospecting observer |
| **8615** | seismic prospecting observer helper |
| **2212** | seismic survey co-ordinator |
| **8615** | seismic survey helper |
| **2212** | seismic technician |
| **2113** | seismologist |
| **2212** | seismology technician - petroleum geology |
| **2212** | seismology technologist - petroleum geology |
| **2212** | seismometer technician |
| **4168** | select committee officer |
| **9611** | selenium recovery helper - primary metal processing |
| **4216** | self-improvement course instructor |
| **5121** | self-instruction manual writer |
| **2273** | self-propelled barge captain |
| **2273** | self-propelled barge deck officer |
| **2274** | self-propelled barge marine engineer officer |
| **2273** | self-propelled drilling rig captain |
| **2274** | self-propelled drilling rig chief engineer |
| **2274** | self-propelled drilling rig first engineer |
| **2273** | self-propelled drilling rig first mate |
| **2274** | self-propelled drilling rig marine engineer officer |
| **2273** | self-propelled drilling rig mate |
| **2274** | self-propelled drilling rig second engineer |
| **2273** | self-propelled oil rig deck officer |
| **6611** | self-serve gas bar attendant |
| **6611** | self-serve gas bar cashier |
| **9523** | semiconductor assembler |
| **9222** | semiconductor assembly foreman/woman |
| **9523** | semiconductor calibrator |
| **9523** | semiconductor material gauger - electronic equipment manufacturing |
| **9523** | semiconductor mounter |
| **2111** | semiconductor physicist |
| **4168** | Senate committee officer |
| **0011** | senator |
| **1111** | senior accounting analyst |
| **1431** | senior accounting clerk |
| **0122** | senior accounts manager - banking, credit and investment |
| **2161** | senior actuarial analyst |
| **3414** | senior adjuvant |
| **1311** | senior bookkeeper |
| **1225** | senior buyer - purchasing |
| **6222** | senior buyer - retail or wholesale |
| **1434** | senior claims clerk |
| **1111** | senior cost accountant |
| **5122** | senior editor |
| **2234** | senior estimator - construction |
| **1112** | senior financial analyst |

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| 2223 | senior fire control technician |
| 0432 | senior firefighting officer |
| 8221 | senior foreman/woman - mining |
| 1121 | senior industrial relations officer |
| 1111 | senior intern auditor |
| 1112 | senior investment officer |
| 2152 | senior landscape architect |
| 6235 | senior loans officer |
| 0122 | senior manager - personal financial services |
| 5222 | senior motion picture camera operator |
| 1121 | senior negotiating officer - labour dispute resolution |
| 9232 | senior operator - chemical processing |
| 2153 | senior planner - land use |
| 1112 | senior planning and return analyst |
| 1112 | senior planning and yield analyst |
| 7381 | senior press operator - printing |
| 7381 | senior pressman/woman - printing |
| 3215 | senior radiation therapy technologist |
| 1526 | senior schedule writer |
| 1223 | senior staffing officer |
| 6551 | senior teller - financial services |
| 1313 | senior underwriter - insurance |
| 0013 | senior vice-president and chief economist |
| 9421 | separation press tender |
| 9461 | separator operator - food processing |
| 9461 | separator-pasteurizer - food processing |
| 7205 | septic system contractor |
| 7441 | septic system installer |
| 6732 | septic tank cleaner |
| 7441 | septic tank installer |
| 0651 | septic tank service manager |
| 4313 | sergeant |
| 0012 | sergeant-at-arms, House of Commons |
| 9446 | serger - garment manufacturing |
| 9446 | serging machine operator |
| 5121 | serial story writer |
| 5121 | serial writer |
| 2121 | serologist |
| 3211 | serology technologist |
| 9418 | serrating machine operator |
| 9418 | serrating machine tender - metal products manufacturing |
| 6513 | server - food and beverage services |
| 2281 | server administrator |
| 6552 | service adviser |
| 6552 | service advisor - auto repair |
| 3413 | service assistant - medical |
| 1414 | service assistant - telephone system |
| 3413 | service associate - medical |
| 6621 | service attendant - gas station |
| 3413 | service attendant - medical |
| 6512 | service bartender |
| 7246 | service centre technician - telecommunications |
| 6552 | service consultant - auto repair |
| 8411 | service crew worker - underground mining |
| 1525 | service dispatcher |
| 7246 | service inspector - telecommunications |
| 7244 | service lineman/woman - electric power systems |
| 0621 | service manager - retail |
| 8615 | service rig helper |
| 8615 | service rig helper - oil field services |
| 8232 | service rig operator |
| 8232 | service rig operator - oil field services |
| 8615 | service rig operator helper |
| 8615 | service rig roughneck - oil field services |
| 1523 | service sector worker |
| 6621 | service station attendant |
| 6621 | service station attendant apprentice |
| 4423 | service station inspector |
| 0621 | service station manager |
| 7332 | service technician - electrical appliances |
| 7332 | service technician - gas appliances |
| 7445 | service technician - home health care equipment |
| 2242 | service technician - household and business equipment |
| 7321 | service technician - motor vehicle repair |
| 2242 | service technicians supervisor - household and business equipment |
| 7245 | service tracer - telecommunications |
| 6552 | service writer - auto repair |
| 1225 | services contracts negotiator |
| 0413 | services manager - education programs |
| 5133 | session musician |
| 5227 | set builder |
| 5243 | set decorator - theatre and motion pictures |
| 5243 | set designer - theatre |
| 5227 | set dresser |
| 5226 | set electrician |
| 6344 | setter - jewellery manufacturing |
| 9537 | setter, pencil maker |
| 9533 | setter, wooden casket moulding |
| 9533 | setter, wooden casket top frames |
| 9437 | setter, woodworking machines |
| 9437 | setter-up, wood cooperage - woodworking |
| 8211 | setting foreman/woman logging |
| 5226 | settings shop foreman/woman |
| 4164 | settlement counsellor |
| 4164 | settlement liaison officer |
| 1312 | settlement management associate |
| 4164 | settlement practitioner |
| 0411 | settlement programs director - government services |
| 1312 | settlement specialist |
| 4212 | settlement worker - community services |
| 9421 | settler-filterer - chemical processing |
| 7231 | set-up machinist |
| 9417 | set-up operator - metal machining |
| 2131 | sewage control engineer |
| 9212 | sewage disposal foreman/woman |

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| **2263** | sewage disposal inspector - environmental health |
| **0912** | sewage disposal manager |
| **7611** | sewage pipelayer |
| **0912** | sewage plant manager |
| **9243** | sewage plant operator |
| **0912** | sewage treatment plant manager |
| **7311** | sewage treatment plant mechanic |
| **9212** | sewage treatment plant supervisor |
| **0912** | sewage treatment system director |
| **9243** | sewage-processing equipment tender |
| **9446** | sewer - garment manufacturing |
| **7302** | sewer construction foreman/woman |
| **2264** | sewer construction inspector |
| **7611** | sewer digger |
| **7522** | sewer flusher operator-driver - public works |
| **7302** | sewer installation foreman/woman |
| **7522** | sewer jet cleaner operator - public works |
| **7522** | sewer jet machine operator - public works |
| **7621** | sewer maintenance worker |
| **9212** | sewer services foreman/woman |
| **7621** | sewer system maintenance worker |
| **9446** | sewer, textile products |
| **7522** | sewer-flushing truck operator |
| **7522** | sewer-flushing truck operator - public works |
| **7522** | sewer-pipe-cleaning machine operator - public works |
| **4216** | sewing instructor - non-vocational |
| **9526** | sewing machine assembler |
| **9526** | sewing machine assembly tester |
| **7445** | sewing machine mechanic - domestic |
| **7612** | sewing machine mechanic helper |
| **9446** | sewing machine operator |
| **9217** | sewing machine operator supervisor - fabric, fur and leather products manufacturing |
| **9217** | sewing machine operators foreman/woman - fabric, fur and leather products manufacturing |
| **9217** | sewing machine operators supervisor |
| **7612** | sewing machine repairer helper |
| **6421** | sewing machine salesperson - retail |
| **7445** | sewing machine servicer - domestic |
| **4032** | sewing teacher - elementary school |
| **4216** | sewing teacher - non-vocational |
| **4031** | sewing teacher - secondary school |
| **4153** | sex therapist |
| **4153** | sexologist |
| **9462** | shackle hoist operator - meat packing plant |
| **9447** | shade matcher - textiles |
| **9534** | shader - furniture finishing and refinishing |
| **8411** | shaft conveyance operator |
| **8231** | shaft driller |
| **8231** | shaft inspector |
| **8231** | shaft miner |
| **9215** | shake and shingle machine foreman/woman - sawmill |
| **9436** | shake inspector - wood processing |
| **9431** | shake maker |
| **9614** | shake packer |
| **9431** | shake sawyer |
| **9431** | shake splitter |
| **7445** | shaker repairer |
| **8615** | shakerhand |
| **8615** | shakerhand - oil and gas drilling |
| **9418** | shaker-plate tender |
| **3232** | shaman |
| **6742** | shampooer |
| **9619** | shank cementer - shoe manufacturing |
| **9437** | shaper - wood products manufacturing |
| **9437** | shaper - woodworking |
| **9437** | shaper operator - woodworking |
| **9417** | shaper set-up operator |
| **7235** | shaper, structural steel plates |
| **9437** | shaver operator - woodworking |
| **9437** | shaver tender - woodworking |
| **9441** | shaving machine tender - hide and pelt processing |
| **9612** | shear helper - metal fabrication |
| **9416** | shear operator |
| **9416** | shear operator - metal fabrication |
| **9416** | shear setter - metal fabrication |
| **9416** | shearer - metal working |
| **8231** | shearer operator - underground mining |
| **7311** | shearing machine fixer - textile manufacturing |
| **8231** | shearing machine operator - underground mining |
| **9441** | shearing machine tender |
| **9441** | shearing machine tender - textile manufacturing |
| **7611** | sheather helper |
| **7302** | shed foreman/woman - construction |
| **0821** | sheep farm operator |
| **0821** | sheep farmer |
| **8431** | sheep feedlot worker |
| **8252** | sheep handler |
| **8252** | sheep herdsperson |
| **8431** | sheep shearer |
| **8252** | sheep shearing contractor |
| **9462** | sheep sticker |
| **9415** | sheet and plate inspector - steel mill |
| **9521** | sheet metal assembler - aircraft assembly |
| **9416** | sheet metal brake tender |
| **7201** | sheet metal contractor |
| **9416** | sheet metal corrugator |
| **9416** | sheet metal cutter - metal fabrication |
| **9416** | sheet metal fabrication inspector |
| **7233** | sheet metal fabricator |
| **7233** | sheet metal installer |
| **4031** | sheet metal instructor - secondary school |
| **7233** | sheet metal layer-out |
| **7381** | sheet metal lithographic press operator |
| **7381** | sheet metal lithographic pressman/woman |
| **7233** | sheet metal mechanic |

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| 7233 | sheet metal mechanic apprentice |
| 7233 | sheet metal mechanic bench hand |
| 7233 | sheet metal model maker |
| 7233 | sheet metal patternmaker |
| 9612 | sheet metal polisher and buffer |
| 9416 | sheet metal roll operator - metal fabrication |
| 7233 | sheet metal roofer |
| 7201 | sheet metal roofer supervisor |
| 7201 | sheet metal roofing contractor |
| 9416 | sheet metal spinner - metal fabrication |
| 7233 | sheet metal work erector |
| 7233 | sheet metal worker |
| 7233 | sheet metal worker - manufacturing |
| 7233 | sheet metal worker - specialty manufacturing |
| 7611 | sheet metal worker helper - construction |
| 7201 | sheet metal workers foreman/woman |
| 7201 | sheet metal workers supervisor |
| 9433 | sheet paper inspector |
| 9433 | sheet paper sampler |
| 9411 | sheet roller - primary metal processing |
| 9611 | sheet roller helper - primary metal processing |
| 9411 | sheet rolling mill operator - primary metal processing |
| 9411 | sheet rougher - primary metal processing |
| 9423 | sheet rubber inspector |
| 9415 | sheet steel inspector - primary metal processing |
| 9423 | sheeter - rubber products manufacturing |
| 9614 | sheeter helper - pulp and paper |
| 9422 | sheeter operator - plastic manufacturing |
| 9433 | sheeter operator - pulp and paper |
| 9416 | sheet-metal-embossing machine operator |
| 9416 | sheet-metal-working machine operator - metal products manufacturing |
| 9416 | sheet-metal-working machine set-up operator |
| 9416 | sheet-metal-working machine tender - metal fabrication |
| 7284 | sheetrock applicator |
| 6622 | shelf stocker - retail |
| 6622 | shelf stocker - supermarket |
| 9537 | shell assembler - explosives |
| 9412 | shell core maker - foundry |
| 9412 | shell mould assembler - foundry |
| 9619 | shell mould bonder |
| 9412 | shell moulder - foundry |
| 9534 | shellac sprayers - furniture finishing and refinishing |
| 9536 | shellacker |
| 9418 | shell-case chamfering machine tender |
| 8613 | shellfish bed attendant |
| 9618 | shellfish checker - fish processing |
| 8262 | shellfish fisherman/woman |
| 8613 | shellfish harvester |
| 8441 | shellfish harvester deckhand |
| 8262 | shellfish harvester operator |
| 9618 | shellfish labourer |
| 9618 | shellfish packer - fish processing |
| 9618 | shellfish processing labourer |
| 9463 | shellfish processor |
| 9463 | shellfish separator tender - fish and seafood processing |
| 9463 | shellfish shucker |
| 9463 | shellfish shucker - fish and seafood processing |
| 9463 | shellfish-processing machine tender |
| 4212 | shelter supervisor - social services |
| 4212 | shelter workshop supervisor |
| 1451 | shelving clerk - library |
| 8252 | shepherd |
| 9536 | sherardizer |
| 9612 | sherardizer helper |
| 4421 | sheriff |
| 4421 | sheriff's bailiff |
| 4421 | sheriff's officer |
| 3232 | shiatsu therapist |
| 7521 | shield operator |
| 7237 | shielded-metal arc welder |
| 8221 | shift boss - mining and quarrying |
| 8221 | shift foreman/woman - mining and quarrying |
| 8221 | shift leader - mining and quarrying |
| 6311 | shift manager - fast food restaurant |
| 9215 | shift operating supervisor - pulp and paper |
| 9431 | shingle cutter |
| 9436 | shingle inspector - wood processing |
| 9431 | shingle maker |
| 9215 | shingle mill foreman/woman |
| 9215 | shingle mill foreman/woman - wood processing |
| 9215 | shingle mill supervisor - wood processing |
| 7452 | shingle piler - material handling |
| 7291 | shingle roofer |
| 7205 | shingle roofing contractor |
| 9431 | shingle sawyer |
| 9614 | shingle trimmer |
| 7291 | shingler |
| 7291 | shingler trainee |
| 1315 | ship agent |
| 7532 | ship boiler tender |
| 6524 | ship cargo agent |
| 0621 | ship chandler |
| 2273 | ship chief officer |
| 2148 | ship construction engineer |
| 7371 | ship crane operator |
| 2253 | ship detail draftsperson |
| 7316 | ship engine fitter |
| 7532 | ship engine room greaser |
| 7532 | ship engine room mechanical assistant |
| 2274 | ship engineer officer |
| 2273 | ship first mate |
| 2262 | ship inspector |
| 7271 | ship joiner |
| 7204 | ship joiners foreman/woman |

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| **2273** | ship junior mate |
| **1522** | ship keeper |
| **1315** | ship line agent |
| **0731** | ship line manager |
| **7451** | ship loader operator |
| **7316** | ship machinery fitter |
| **7612** | ship machinery installer helper |
| **0731** | ship management operations manager |
| **2273** | ship master |
| **7384** | ship model maker |
| **2273** | ship operation chief officer |
| **6721** | ship passenger attendant |
| **2273** | ship pilot |
| **7252** | ship pipefitter |
| **6522** | ship purser |
| **2232** | ship repair technician |
| **7311** | ship rigger |
| **7201** | ship riggers foreman/woman |
| **2273** | ship second mate |
| **7252** | ship steamfitter |
| **7532** | ship stoker |
| **1522** | ship storekeeper |
| **1522** | ship storeman/woman |
| **1524** | ship supply clerk |
| **6522** | ship supply officer |
| **2273** | ship third mate |
| **7532** | ship tunnel operator |
| **7532** | ship tunnelman/woman |
| **2273** | ship watchkeeping mate |
| **7532** | ship watchman/woman |
| **4312** | shipboard firefighter |
| **1315** | shipbroker |
| **7271** | shipbuilding carpenter |
| **2253** | shipbuilding draftsperson |
| **7612** | shipbuilding electrician helper |
| **2148** | shipbuilding engineer |
| **7235** | shipbuilding fitter |
| **9612** | shipbuilding fitter helper |
| **7271** | shipbuilding joiner |
| **9226** | shipbuilding supervisor |
| **7235** | shipfitter |
| **7235** | shipfitter apprentice |
| **9612** | shipfitter helper |
| **7201** | shipfitters foreman/woman |
| **7451** | shiploader operator |
| **7452** | shipment assembler |
| **1521** | shipper |
| **1521** | shipper-receiver |
| **1521** | shipping agent |
| **1521** | shipping and receiving clerk |
| **1215** | shipping and receiving supervisor |
| **0731** | shipping and warehousing service manager |
| **1521** | shipping clerk |
| **1511** | shipping clerk - railway transport |
| **1215** | shipping clerks supervisor |
| **1523** | shipping control clerk |
| **1215** | shipping co-ordinator |
| **6411** | shipping sales representative |
| **0731** | shipping services manager |
| **1215** | shipping supervisor |
| **2273** | ship's captain |
| **7532** | ship's carpenter |
| **6322** | ship's cook |
| **7242** | ship's electrician |
| **7242** | ship's electrician - shipbuilding and repair |
| **7242** | ship's electrician - water transport |
| **2273** | ship's mate |
| **7235** | ship's plater |
| **9612** | shipwright helper |
| **7242** | shipyard electrician |
| **7612** | shipyard electrician helper |
| **9619** | shipyard labourer |
| **7201** | shipyard machine shop foreman/woman |
| **9536** | shipyard painter |
| **9226** | shipyard painter foreman/woman |
| **9619** | shipyard painter helper |
| **6741** | shirt finisher - laundry and dry cleaning |
| **6741** | shirt folder - laundry and dry cleaning |
| **9447** | shirt inspector |
| **6741** | shirt presser - laundry and dry cleaning |
| **6741** | shirt-folding machine operator - laundry and dry cleaning |
| **7535** | shock absorber installer |
| **9445** | shoe cutter |
| **9537** | shoe decoration assembler - footwear manufacturing |
| **9537** | shoe decorator - footwear manufacturing |
| **5243** | shoe designer |
| **6343** | shoe dyer |
| **9447** | shoe inspector |
| **9619** | shoe manufacturing labourer |
| **6343** | shoe mender - retail |
| **9445** | shoe parts cutter - footwear manufacturing |
| **9619** | shoe parts dipper |
| **9537** | shoe parts fastener |
| **9619** | shoe parts former |
| **9619** | shoe parts marker |
| **9446** | shoe parts sewer |
| **5245** | shoe patternmaker |
| **0651** | shoe repair service manager |
| **6343** | shoe repairer |
| **6343** | shoe repairer - retail |
| **9619** | shoe repairer helper, factory |
| **9537** | shoe repairer, factory |
| **6421** | shoe salesperson - retail |
| **9446** | shoe sewer |
| **6742** | shoe shiner |
| **9446** | shoe stitcher |
| **9537** | shoe stitcher, hand |
| **0621** | shoe store manager |
| **9537** | shoelace-tipping machine tender |
| **5245** | shoe-last patternmaker |
| **6343** | shoemaker |

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| 9537 | shoe-trimming machine operator - footwear manufacturing |
| 9462 | shohet - meat packing plant |
| 8615 | shooter - seismograph |
| 8615 | shooter helper - seismic prospecting |
| 6722 | shooting gallery operator |
| 9533 | shop assembler - wood products manufacturing |
| 6421 | shop clerk |
| 7301 | shop foreman/woman, automotive body repair |
| 2244 | shop inspector - avionics |
| 0621 | shop manager |
| 7246 | shop repairer - telecommunications |
| 6342 | shop tailor |
| 0714 | shopping centre maintenance manager |
| 0714 | shopping centre manager |
| 6541 | shopping investigator - security |
| 0714 | shopping mall maintenance manager |
| 0714 | shopping mall manager |
| 0811 | shore captain - fishing |
| 0731 | shore captain - water transport |
| 7611 | shore dredging labourer |
| 8262 | shore fisherman/woman |
| 7511 | short haul truck driver |
| 6322 | short order cook |
| 5121 | short story writer |
| 5251 | short-distance runner |
| 5224 | short-wave receiving station technician |
| 8241 | shortwood harvester operator |
| 9611 | shot bagger - explosives manufacturing |
| 8231 | shot firer |
| 8231 | shot firer - underground mining |
| 8221 | shot foreman/woman - mining and quarrying |
| 9612 | shot grinder - metal products manufacturing |
| 9412 | shot maker - foundry |
| 5251 | shot put |
| 9612 | shotblaster |
| 9612 | shotblaster - metal fabrication |
| 9612 | shotblasting machine operator - metal products manufacturing |
| 9612 | shotblasting machine tender - metal products manufacturing |
| 9537 | shotgun proof tester |
| 9471 | shotgun-shell-printing machine tender |
| 8231 | shotman/woman - underground mining |
| 7535 | shovel oiler |
| 7521 | shovel operator - heavy equipment |
| 8614 | shoveller - underground mining |
| 5243 | show and demonstration designer |
| 5232 | show horse rider |
| 6721 | showcase installer |
| 9537 | shower door and panel assembler |
| 9422 | shredder operator - plastic recycling |
| 9461 | shredder operator - tobacco processing |
| 9437 | shredder operator - woodworking |
| 9461 | shredding machine operator - food processing |
| 9422 | shredding machine operator - plastic recycling |
| 9421 | shredding machine tender - chemical processing |
| 9463 | shrimp peeler - fish and seafood processing |
| 9463 | shrimp peeler tender - fish and seafood processing |
| 9463 | shrimp processor - fish and seafood processing |
| 9441 | shrinking machine operator - textile manufacturing |
| 9617 | shrouder - food and beverage processing |
| 0822 | shrub grower |
| 9463 | shucker - fish and seafood processing |
| 7511 | shunt truck driver |
| 7511 | shunter - trucking |
| 7511 | shunter truck driver |
| 9613 | shutdown labourer - chemical processing |
| 7512 | shuttle bus driver |
| 8411 | shuttle car operator |
| 7512 | shuttle driver - auto dealership |
| 7512 | shuttle driver - car rental company |
| 9616 | shuttle filler - textile processing |
| 9437 | shuttle finisher - woodworking |
| 7311 | shuttle fixer - textile manufacturing |
| 9437 | shuttle maker - woodworking |
| 7512 | shuttle operator |
| 9437 | shuttle planer - woodworking |
| 7311 | shuttle setter - textile manufacturing |
| 9437 | shuttle shaper and tip inserter - woodworking |
| 6533 | sic bo croupier |
| 7521 | side boom operator - pipeline construction |
| 7521 | side boom tractor operator |
| 7237 | side seaming tender |
| 9473 | side stitching machine operator - printing |
| 7312 | sideboom mechanic |
| 7611 | sider helper |
| 9472 | siderographer - printing |
| 7621 | sidewalk cleaner |
| 7282 | sidewalk concrete finisher |
| 7621 | sidewalk snowplough operator |
| 7621 | sidewalk-cleaning equipment operator |
| 8232 | sidewall core sampler - oil field services |
| 7441 | siding applicator |
| 7622 | siding checker-messenger - railway transport |
| 7205 | siding contractor |
| 7441 | siding installer |
| 7445 | sieve repairer |
| 9615 | sifting machine feeder - rubber products manufacturing |
| 7533 | sightseeing boat captain |
| 7533 | sightseeing boat master |
| 7533 | sightseeing boat operator |
| 7512 | sightseeing bus driver |
| 6531 | sightseeing guide |

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| **7512** | sightseeing tour driver |
| **6411** | sign and display leasing agent |
| **6411** | sign and display sales representative |
| **7271** | sign carpenter |
| **5241** | sign designer |
| **7441** | sign erector |
| **4423** | sign inspector |
| **7441** | sign installer |
| **4215** | sign language instructor |
| **5125** | sign language interpreter |
| **5125** | sign language platform interpreter |
| **4215** | sign language teacher |
| **5223** | sign layout detailer |
| **9536** | sign letterer |
| **9537** | sign maker |
| **5223** | sign painter |
| **9536** | sign panel primer |
| **9536** | sign spray painter |
| **5223** | sign writer |
| **2133** | signal engineer |
| **7622** | signal gang helper |
| **7531** | signal tower operator - railway |
| **7245** | signal tracer - telecommunications |
| **7202** | signaling system installation foreman/woman |
| **7531** | signalman/woman - railway transport |
| **5136** | silhouette artist |
| **9523** | silicon wafer fabricator |
| **9523** | silicon wafer grower |
| **6741** | silk finisher - laundry and dry cleaning |
| **5136** | silkscreen artist |
| **9472** | silkscreen assembler - printing |
| **9471** | silk-screen printing machine operator |
| **9441** | silk-screen printing machine operator - textile manufacturing |
| **5223** | silkscreen stencil cutter |
| **5223** | silkscreen technician |
| **9471** | silk-screen tender - printing |
| **9471** | silk-screening machine operator |
| **6344** | silver chaser |
| **9536** | silver plater |
| **9536** | silver spray operator |
| **9619** | silvering machine feeder |
| **5244** | silversmith |
| **9537** | silverware buffer |
| **6711** | silverware cleaner |
| **5244** | silverware engraver |
| **9227** | silverware manufacturing supervisor |
| **6421** | silverware salesperson - retail |
| **8211** | silviculture contractor |
| **8211** | silviculture supervisor |
| **2223** | silviculture technician |
| **2223** | silviculture technologist |
| **8422** | silviculture worker |
| **2223** | silviculturist |
| **7281** | simulated stone mason |
| **7281** | simulated stone setter |
| **2173** | simulation software design engineer |
| **2171** | simulations analyst - computer systems |
| **5125** | simultaneous interpreter |
| **9441** | singeing and boiling machine tender - textile manufacturing |
| **9617** | singeing machine tender |
| **5133** | singer |
| **1123** | singers agent |
| **5132** | singer-songwriter-composer |
| **9446** | single-needle sewing machine operator |
| **7291** | single-ply roofer |
| **9417** | single-spindle drill press set-up operator - metal machining |
| **9411** | sink-float equipment operator - metal processing |
| **9611** | sintering machine loader - primary metal processing |
| **9411** | sintering machine operator |
| **9211** | sintering plant foreman/woman - mineral and metal processing |
| **9211** | sintering plant foreman/woman - primary metal and mineral products processing |
| **9412** | sintering press tender - foundry |
| **4217** | sister/brother - religion |
| **2153** | site planner |
| **9614** | sixth hand - pulp and paper |
| **9441** | size maker - textile manufacturing |
| **9418** | sizing and trimming machine adjuster - explosives manufacturing |
| **9537** | sizing machine operator - fabric |
| **9441** | sizing machine tender - textiles |
| **9537** | skate maker |
| **9537** | skate press operator |
| **6722** | skate sharpener |
| **6421** | skate shop attendant |
| **5254** | skateboarding instructor |
| **5251** | skater |
| **5254** | skating instructor, ice |
| **9441** | skein spooler - textile manufacturing |
| **9441** | skein winder - textile manufacturing |
| **9447** | skein yarn examiner - textiles |
| **9441** | skeiner - textile manufacturing |
| **6316** | ski area supervisor |
| **5252** | ski coach |
| **7445** | ski equipment repairer |
| **5254** | ski instructor |
| **5254** | ski instructor - sports and recreation |
| **6722** | ski lift attendant |
| **6316** | ski lift attendant supervisor |
| **7311** | ski lift mechanic |
| **6722** | ski lift operator |
| **7311** | ski lift repair technician |
| **6316** | ski lift supervisor |
| **9537** | ski maker |
| **5254** | ski patrol |
| **5254** | ski patroller |
| **6531** | ski resort host/hostess |
| **0632** | ski resort manager |

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| **6421** | ski shop retail clerk |
| **6722** | ski tow attendant |
| **6722** | ski tow operator |
| **7611** | skid setter |
| **7611** | skid setter - pipeline construction |
| **7452** | skidder - fruit packing |
| **8421** | skidder operator |
| **8421** | skidder operator - logging |
| **8211** | skidders foreman/woman - logging |
| **5251** | skier |
| **9611** | skimmer - primary metal and mineral products processing |
| **6562** | skin care consultant |
| **6562** | skin care specialist |
| **6562** | skin care technician |
| **3111** | skin disease specialist |
| **9521** | skin fitter - aircraft assembly |
| **3111** | skin specialist |
| **9422** | skin-former machine tender - plastic manufacturing |
| **9463** | skinner operator - fish processing |
| **9617** | skinning machine feeder - food and beverage processing |
| **9463** | skinning machine setter - fish processing |
| **8411** | skip loader - underground mining |
| **7371** | skip operator |
| **8411** | skip tender |
| **8411** | skip tender - underground mining |
| **1435** | skip tracer - collection |
| **9423** | skiver - rubber products manufacturing |
| **9423** | skiver, rubber V-belts |
| **9535** | skylight assembler - plastic products manufacturing |
| **6721** | skytrain attendant |
| **9411** | slab caster - steel rolling mill |
| **9423** | slab machine operator - rubber products manufacturing |
| **9431** | slab saw operator |
| **9421** | slabber |
| **9231** | slabbing mill roller - primary metal processing |
| **9615** | slab-off machine tender - rubber products manufacturing |
| **9615** | slab-off man/woman - rubber products manufacturing |
| **5232** | slack-rope performer - entertainment |
| **9411** | slag pelletizer - primary metal processing |
| **8615** | slasher - oil and gas |
| **8615** | slasher - oil field services |
| **9441** | slasher - textile manufacturing |
| **8241** | slasher loader operator |
| **8241** | slasher operator - logging |
| **9431** | slasher operator - sawmill |
| **9441** | slasher operator - textile manufacturing |
| **9616** | slasher operator helper - textile processing |
| **8241** | slasher saw operator - logging |
| **9431** | slasher saw operator - sawmill |
| **8241** | slasher sawyer operator - logging |
| **9431** | slasher trim operator - sawmill |
| **8241** | slasher-brusher |
| **9437** | slat picker - woodworking |
| **9437** | slat slicer - wood products |
| **9414** | slate bed maker - clay products |
| **9414** | slate cutter |
| **9414** | slate mixer |
| **8614** | slate picker |
| **9414** | slate-cutting and slate-grinding machine tender |
| **9462** | slaughterer |
| **9462** | slaughterer - meat packing plant |
| **9462** | slaughterhouse butcher |
| **9213** | slaughterhouse foreman/woman |
| **9213** | slaughterhouse supervisor |
| **9213** | slaughtering and meat packing workers foreman/woman |
| **2222** | slaughtering and meat processing plant inspector |
| **9537** | sleeping bag finisher |
| **6721** | sleeping car attendant |
| **7362** | sleeping car conductor |
| **6721** | sleeping car porter |
| **9527** | sleeve-making machine tender - electrical equipment manufacturing |
| **9435** | sleever - paper converting |
| **5232** | sleight-of-hand artist |
| **9461** | sliced cheese maker |
| **9461** | slicing machine operator - food and beverage processing |
| **9461** | slicing machine tender - food and beverage processing |
| **8232** | slickline operator |
| **8232** | slickline operator - oil field services |
| **9537** | slide fastener chain machine tender |
| **9418** | slide fastener links machine tender |
| **9418** | slide fastener links maker |
| **9537** | slide fastener machine operator |
| **9537** | slide fastener machine tender (except plastic products) |
| **9416** | slide forming machine setter - metal fabrication |
| **9416** | slide forming machine set-up operator |
| **9416** | slide forming machine tender - metal fabrication |
| **9474** | slide maker - photographic processing |
| **9537** | slide-fastener-cutting machine operator |
| **9446** | slide-fastener-sewing machine operator |
| **9411** | slime recoverer - primary metal processing |
| **9411** | slime recovery operator - primary metal processing |
| **9611** | slime recovery plant helper - primary metal processing |
| **9411** | slime treater - primary metal processing |
| **7611** | slinger - construction |
| **7611** | slip form curb machine tender |

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| **9414** | slip mixer tender |
| **9611** | slip sealer - mineral products processing |
| **9619** | slip seat coverer - furniture assembly |
| **9445** | slipcover cutter - fabric products manufacturing |
| **9446** | slipper maker |
| **9445** | slitter and rewinder |
| **9422** | slitter operator - plastic manufacturing |
| **9423** | slitter operator - rubber products manufacturing |
| **9537** | slitter operator, asphalt roofing materials |
| **9537** | slitter tender, knit tubing |
| **9435** | slitter-creaser - paper converting |
| **9435** | slitter-creaser feeder - paper converting |
| **9435** | slitter-creaser operator - paper converting |
| **9445** | slitter-rewinder |
| **9435** | slitter-scorer - paper converting |
| **9441** | sliver lapper - textile manufacturing |
| **2242** | slot machine technician - casino |
| **6313** | slot machines section head |
| **6313** | slot supervisor |
| **9441** | slubber tender - textile manufacturing |
| **9441** | slubber, hand |
| **8411** | sludge pump operator - underground mining |
| **9611** | sludge worker - primary metal processing |
| **9613** | slug-press feeder |
| **9231** | slurry controller - primary metal processing |
| **9411** | slurry equipment operator |
| **9411** | slurry equipment operator - primary metal and mineral products processing |
| **9435** | slurry mixer |
| **8231** | slusher operator - underground mining |
| **3114** | small animal veterinarian |
| **3114** | small animal veterinary specialist |
| **7384** | small arms repairer |
| **9537** | small arms tester |
| **4163** | small business counsellor |
| **4111** | small claims court judge |
| **1227** | small claims court registrar |
| **1227** | small claims court supervisor |
| **7533** | small craft operator |
| **9524** | small electric motor assembler |
| **9524** | small electric motor core and shaft assembler |
| **9524** | small electric motor tester |
| **9524** | small electrical appliance assembler |
| **9524** | small electrical appliance assembly lead hand |
| **9524** | small electrical appliances inspector |
| **9524** | small electrical products assembler |
| **7335** | small engine and equipment mechanic |
| **7335** | small engine apprentice mechanic |
| **9226** | small engine assembly foreman/woman |
| **9226** | small engine assembly supervisor |
| **7335** | small engine mechanic |
| **7301** | small engine repair foreman/woman |
| **7335** | small engine repairer |
| **7335** | small engine technician |
| **7335** | small equipment mechanic apprentice |
| **7335** | small equipment repairer |
| **6322** | small establishment cook |
| **8611** | small fruit picker |
| **9526** | small marine engine assembler |
| **9522** | small parts assembler - motor vehicle manufacturing |
| **9524** | small transformer assembler - electrical equipment manufacturing |
| **9524** | small transformer core builder |
| **9524** | small transformer inspector |
| **9524** | small transformer tester |
| **7514** | small van driver |
| **7384** | small-aircraft model maker |
| **4216** | small-boat navigation instructor |
| **7612** | small-engine mechanic helper |
| **7301** | small-engine repair shop foreman/woman |
| **7301** | small-engine repair shop supervisor |
| **7301** | small-equipment repair shop supervisor |
| **7301** | small-machines repair shop supervisor |
| **9211** | smelter foreman/woman - primary metal and mineral products processing |
| **9611** | smelter helper |
| **9611** | smelter labourer |
| **7611** | smelter liner |
| **9231** | smelting furnace operator - primary metal processing |
| **2142** | smelting plant engineer |
| **6421** | smoke shop clerk |
| **9617** | smoked meat preparer - food and beverage processing |
| **9461** | smokehouse operator - food and beverage processing |
| **7281** | smokestack bricklayer |
| **7384** | smokestack repairer |
| **9437** | smoking pipe air hole driller |
| **9437** | smoking pipe burler - woodworking |
| **9437** | smoking pipe maker - woodworking |
| **9437** | smoking pipe sander |
| **9536** | smoking-pipe stainer |
| **9619** | smoothing machine tender - shoe manufacturing |
| **6711** | snack bar attendant |
| **2255** | snow controller |
| **7441** | snow fence erector |
| **7521** | snow removal equipment operator - private home |
| **7522** | snow removal equipment operator - public works |
| **8612** | snow shoveller - grounds maintenance |
| **7531** | snowblower operator - railway |
| **9226** | snowblower tractor assembly foreman/woman |
| **5251** | snowboarder |
| **5254** | snowboarding instructor |
| **7521** | snow-grooming machine operator |

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| **6722** | snowmaker |
| **6722** | snowmaking equipment operator |
| **6722** | snowmaking facility attendant |
| **6722** | snowmaking machine operator |
| **9526** | snowmobile assembler |
| **9226** | snowmobile assembly foreman/woman |
| **9226** | snowmobile assembly supervisor |
| **9526** | snowmobile final inspector |
| **9526** | snowmobile inspector |
| **6532** | snowmobile operations guide |
| **7334** | snowmobile repairer |
| **7334** | snowmobile repairman/woman |
| **9526** | snowmobile test rider |
| **9537** | snowshoe weaver |
| **9214** | snowtrack foreman/woman - rubber manufacturing |
| **8412** | snubbing-unit operator |
| **9461** | snuff can inspector |
| **9461** | snuff dryer - tobacco processing |
| **9461** | snuff grinder - tobacco processing |
| **9461** | snuff-blending machine operator - tobacco processing |
| **9617** | snuff-packing machine tender |
| **9611** | soaking pit bottom cleaner - primary metal processing |
| **9537** | soap and toilet goods preparations inspector |
| **9421** | soap boiler |
| **9421** | soap chipper |
| **9421** | soap cutter and stamper |
| **9421** | soap flake dryer operator |
| **9421** | soap maker |
| **5252** | soccer coach |
| **5251** | soccer player |
| **4212** | social aid officer |
| **4164** | social and community care licensing officer |
| **4169** | social and cultural anthropologist |
| **4212** | social animator |
| **4169** | social anthropologist |
| **4164** | social assistance advisor |
| **0423** | social assistance director |
| **4212** | social assistance officer |
| **4164** | social assistance policy analyst |
| **4155** | social assistance program officer - corrections |
| **4152** | social casework consultant |
| **6561** | social consultant |
| **4164** | social development officer |
| **0411** | social development programs chief - government services |
| **4169** | social ecologist |
| **4162** | social economist |
| **1226** | social events co-ordinator |
| **4169** | social historian |
| **4164** | social issues researcher |
| **1123** | social media community manager |
| **0411** | social planning director - government services |
| **4164** | social policy advisor |
| **4164** | social policy analyst |
| **4164** | social policy consultant |
| **4164** | social policy planning consultant |
| **4164** | social policy researcher |
| **4164** | social program officer |
| **0411** | social programs administrator - government services |
| **0411** | social programs assistant director - government services |
| **0411** | social programs development chief - government services |
| **4151** | social psychologist |
| **4212** | social rehabilitation officer |
| **4212** | social rehabilitation technician |
| **4212** | social rehabilitation worker |
| **1254** | social research assistant (except university) |
| **4164** | social researcher |
| **1254** | social science research assistant (except university) |
| **4164** | social science researcher |
| **2161** | social science statistician |
| **4011** | social sciences professor - university |
| **4031** | social sciences teacher - secondary school |
| **4169** | social scientist |
| **0423** | social service general manager |
| **4164** | social service program officer |
| **0423** | social services area director |
| **4212** | social services assistant |
| **0423** | social services centre administrator |
| **0423** | social services centre director |
| **0423** | social services centre manager |
| **4164** | social services consultant |
| **0423** | social services department chief |
| **0423** | social services department head |
| **0423** | social services director |
| **0411** | social services director - government services |
| **0423** | social services district director |
| **0014** | social services institution corporate controller |
| **0423** | social services local manager |
| **0423** | social services manager |
| **4164** | social services planner |
| **4164** | social services planning consultant |
| **0411** | social services planning manager - government services |
| **0411** | social services policy, planning and research director - government services |
| **4164** | social services program officers supervisor |
| **4164** | social services program planner |
| **0423** | social services provincial co-ordinator |
| **0423** | social services regional administrator |
| **0411** | social services regional director - government services |
| **4021** | social services teacher - college level |
| **4212** | social services volunteer co-ordinator |
| **4212** | social services worker |

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| 4164 | social survey researcher (except statistician) |
| 4164 | social survey researchers supervisor |
| 0411 | social surveys director - government services |
| 4164 | social welfare advisor |
| 4212 | social welfare officer |
| 4164 | social welfare research officer |
| 4152 | social work co-ordinator |
| 0423 | social work director |
| 0411 | social work director - government services |
| 4152 | social work officer |
| 4011 | social work professor - university |
| 4152 | social work supervisor |
| 4152 | social worker |
| 4152 | social workers supervisor |
| 5123 | society columnist |
| 5122 | society editor |
| 5123 | society journalist |
| 5123 | society reporter |
| 4164 | socio-economic research and planning officer |
| 4169 | sociolinguist |
| 4169 | sociologist |
| 4011 | sociology professor - university |
| 9619 | sock boarder |
| 9442 | sock foot knitter |
| 9442 | sock knitter - textiles |
| 9442 | sock looper |
| 0821 | sod farmer |
| 8612 | sod layer |
| 8612 | sod laying labourer |
| 9421 | soda dialyzer |
| 9421 | soda solution maker |
| 9421 | soda solution mixer |
| 9532 | sofa inspector - furniture manufacturing |
| 7514 | soft drink driver-salesman/woman |
| 9617 | soft drink mixer |
| 9461 | soft drink powder mixer |
| 7514 | soft drinks driver |
| 8231 | soft rock miner |
| 9522 | soft top trimmer - motor vehicle manufacturing |
| 9423 | softball centre moulder |
| 2255 | softcopy photogrammetrist |
| 2173 | software architect |
| 2173 | software design engineer |
| 2173 | software design supervisor |
| 2173 | software design verification engineer |
| 2173 | software designer |
| 2174 | software developer |
| 0213 | software development manager |
| 2174 | software development programmer |
| 2173 | software engineer |
| 0213 | software engineering director |
| 0213 | software engineering manager |
| 2282 | software installation technician |
| 2174 | software programmer |
| 2171 | software QA (quality assurance) auditor |
| 2171 | software quality assurance (QA) analyst |
| 2171 | software quality assurance (QA) auditor |
| 6221 | software sales representative |
| 2173 | software systems designer |
| 2173 | software systems integration engineer |
| 2173 | software technical architect |
| 2282 | software technical support analyst |
| 2283 | software test co-ordinator |
| 2283 | software tester |
| 2173 | software testing engineer |
| 2283 | software testing technician |
| 2221 | soil bacteriological technician |
| 2221 | soil bacteriological technologist |
| 2121 | soil bacteriologist |
| 2112 | soil chemist |
| 2123 | soil conservationist |
| 2131 | soil engineer |
| 2123 | soil fertility expert |
| 2264 | soil inspector - construction |
| 8252 | soil preparation contractor |
| 2212 | soil science technician - mining |
| 2115 | soil scientist |
| 2231 | soil technologist - civil engineering |
| 2231 | soil testing technologist |
| 2231 | soil testing technologist - civil engineering |
| 8252 | soil-testing service contractor |
| 7441 | solar heating equipment installer |
| 7441 | solar heating technician |
| 7441 | solar hot water system installer |
| 7441 | solar panel installer |
| 7237 | solderer |
| 7237 | solderer-dipper |
| 9612 | soldering machine feeder |
| 7237 | soldering machine operator |
| 9619 | sole edge stainer-finisher - shoe manufacturing |
| 9423 | sole maker, rubber |
| 9619 | sole-flexing machine tender |
| 9537 | sole-moulding machine operator - footwear manufacturing |
| 9537 | sole-moulding machine tender - footwear manufacturing |
| 9537 | solenoid valve assembler |
| 9423 | sole-treading machine tender - rubber footwear manufacturing |
| 4112 | solicitor |
| 0011 | solicitor general |
| 7331 | solid fuel heater installer |
| 7331 | solid fuel heating installer |
| 6221 | solid fuel heating sales consultant |
| 2231 | solid waste disposal technician |
| 2131 | solid waste management engineer |
| 0912 | solid waste processing district manager |
| 0912 | solid waste processing manager |
| 0912 | solid waste processing operations planning manager |

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| 4161 | solid waste program co-ordinator |
| 4161 | solid waste program manager |
| 2111 | solid-state physicist |
| 5133 | soloist |
| 9421 | solution mixer - chemical processing |
| 9422 | solution mixer operator - plastic manufacturing |
| 9411 | solution operator - primary metal and mineral processing |
| 2171 | solutions architect - information technology (IT) |
| 9422 | solvent mixer operator - plastic manufacturing |
| 9421 | solvent recovery tender - chemical processing |
| 6513 | sommelier |
| 2241 | sonar technician |
| 5132 | songwriter |
| 3216 | sonographer - medical |
| 3216 | sonography technologist |
| 5133 | soprano |
| 9615 | sorter - rubber products manufacturing |
| 9619 | sorter, recyclable materials |
| 9619 | sorter, shoe parts stock |
| 9619 | sorter, upholstery parts |
| 1511 | sorting and routing clerk |
| 9617 | sorting machine feeder - food and beverage processing |
| 5225 | sound cutter |
| 5243 | sound designer |
| 5225 | sound editor |
| 5225 | sound effects editor |
| 5225 | sound effects specialist |
| 5225 | sound engineer |
| 5225 | sound engineer (except professional engineers) |
| 5225 | sound engineer assistant |
| 7293 | sound insulator |
| 5225 | sound keyer |
| 5225 | sound librarian - audio-recording |
| 5225 | sound mix engineer |
| 5225 | sound mixer |
| 5225 | sound operator |
| 5225 | sound recorder |
| 5225 | sound recording engineer |
| 5225 | sound recording supervisor |
| 5225 | sound recordist |
| 5225 | sound technician |
| 7293 | soundproof material installer |
| 5225 | sound-recording and video-recording reproduction equipment operator |
| 5225 | sound-recording equipment operator |
| 6321 | sous-chef |
| 8431 | soya bean crop worker |
| 9461 | soya mill operator |
| 9465 | soybean tester |
| 0651 | spa director |
| 0651 | spa manager |
| 1414 | spa receptionist |
| 5242 | space management consultant |
| 2111 | space physicist |
| 0131 | space programs manager - telecommunications |
| 2146 | space reliability specialist |
| 2241 | space vision technologist |
| 2133 | spacecraft electronics engineer |
| 2147 | spacecraft electronics engineer - hardware |
| 9226 | spacecraft subassembly foreman/woman |
| 7611 | spacer - pipeline construction |
| 8422 | spacing saw operator |
| 8422 | spacing saw operator - forestry |
| 4031 | Spanish teacher - secondary school |
| 9521 | spar assembler - aircraft assembly |
| 9524 | spark plug assembler |
| 2131 | spatial information systems engineer |
| 9523 | speaker assembler |
| 1222 | special assistant |
| 3413 | special care aide - nursing |
| 3413 | special care facility attendant |
| 3413 | special care worker - medical |
| 1512 | special delivery mail carrier |
| 6322 | special diet cook |
| 4413 | special education assistant |
| 4166 | special education consultant |
| 4166 | special education co-ordinator |
| 4166 | special education co-ordinator - education |
| 0413 | special education programs director |
| 0413 | special education services assistant director |
| 4032 | special education teacher - elementary school |
| 4032 | special education teacher - primary school |
| 4031 | special education teacher - secondary school |
| 4215 | special education technician - persons with disabilities |
| 4212 | special education technician - social and community services |
| 5227 | special effects assistant |
| 2174 | special effects programmer |
| 5226 | special effects technician |
| 1434 | special endorsement clerk - insurance |
| 1226 | special events co-ordinator |
| 1226 | special events organizer |
| 1226 | special events planner |
| 1226 | special events program planner |
| 5122 | special features editor |
| 9413 | special glass cutter |
| 4153 | special needs counsellor |
| 4413 | special needs educational assistant |
| 4032 | special needs teacher - elementary school |
| 4031 | special needs teacher - secondary school |
| 6322 | special order cook - hospital |
| 4413 | special programs aide - education |

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| **4215** | special programs instructor for persons with disabilities |
| **4031** | special programs teacher - secondary school |
| **4112** | special prosecutor |
| **7246** | special services technician - telecommunications |
| **1123** | specialist - e-media advertising |
| **6321** | specialist chef |
| **3111** | specialist doctor |
| **3111** | specialist in cardiology |
| **3111** | specialist in cardiovascular and thoracic surgery |
| **3111** | specialist in community medicine |
| **3111** | specialist in critical care medicine |
| **3111** | specialist in emergency medicine |
| **3111** | specialist in environmental medicine |
| **3111** | specialist in epidemiology and community medicine |
| **3111** | specialist in geriatric medicine |
| **3111** | specialist in hematopathology |
| **3111** | specialist in infectious diseases |
| **3111** | specialist in infertility |
| **3111** | specialist in internal medicine |
| **3111** | specialist in medical oncology |
| **3111** | specialist in nuclear medicine |
| **3111** | specialist in physical medicine and rehabilitation |
| **3111** | specialist in plastic surgery |
| **3111** | specialist in preventive medicine |
| **3111** | specialist in pulmonary disease |
| **3111** | specialist in spinal injuries |
| **3111** | specialist in sports medicine |
| **3111** | specialist in vascular surgery |
| **3111** | specialist physician |
| **6732** | specialized cleaner |
| **6732** | specialized cleaner - automobile aesthetics |
| **7294** | specialized painter and decorator |
| **9212** | specialty chemicals production supervisor |
| **6222** | specialty food buyer |
| **6332** | specialty foods baker |
| **6332** | specialty foods baker - retail |
| **6321** | specialty foods chef |
| **9433** | specialty rewinder operator - papermaking |
| **5121** | specifications writer |
| **5121** | specifications writer (except construction) |
| **3231** | spectacle frame fitter |
| **9537** | spectacle frame polisher |
| **2211** | spectroscopic technologist |
| **2211** | spectroscopist |
| **3237** | speech aide |
| **3141** | speech and hearing therapist |
| **3237** | speech correctionist - medical |
| **3237** | speech language assistant |
| **3141** | speech pathologist |
| **3237** | speech technician |
| **3141** | speech therapist |
| **3237** | speech therapist aide |
| **3237** | speech therapist assistant |
| **3237** | speech therapy aide |
| **3237** | speech therapy assistant |
| **5121** | speech writer |
| **3141** | speech-language clinician |
| **3141** | speech-language pathologist |
| **3141** | speech-language pathologist clinician |
| **3141** | speech-language pathologist researcher |
| **3237** | speech-language pathology assistant |
| **7445** | speedometer repairer |
| **9461** | spice fumigator - food and beverage processing |
| **9461** | spice miller |
| **9461** | spice mixer |
| **9619** | spike installer, golf shoes |
| **7531** | spike machine operator - railway |
| **7531** | spike puller machine operator - railway |
| **7531** | spike-driver operator - railway |
| **9227** | spikemaking foreman/woman |
| **7531** | spiker operator - railway |
| **7531** | spiking machine operator - railway |
| **3111** | spinal injury specialist |
| **9437** | spindle carver operator - woodworking |
| **9461** | spinner - food and beverage processing |
| **9441** | spinner - textile manufacturing |
| **9421** | spinneret pack preparer - chemical processing |
| **7311** | spinning fixer |
| **7311** | spinning frame fixer - textile manufacturing |
| **9441** | spinning frame tender - textile manufacturing |
| **7311** | spinning machine fixer - textile manufacturing |
| **9441** | spinning machine operator - textile manufacturing |
| **9441** | spinning machine tender - textile manufacturing |
| **9441** | spinning operator - textile manufacturing |
| **9217** | spinning room foreman/woman - textiles |
| **9217** | spinning supervisor - textiles |
| **7311** | spinning technician - textile manufacturing |
| **9417** | spiral bevel-gear cutting machine set-up operator |
| **9417** | spiral bevel-gear generator set-up operator |
| **9473** | spiral binding machine operator - printing |
| **9473** | spiral binding worker - printing |
| **9411** | spiral conveyor attendant |
| **9417** | spiral gear-generator operator |
| **9418** | spiral weaving machine operator |
| **9423** | spiral wound gasket maker - rubber products manufacturing |
| **9421** | splash line tender |
| **9423** | splicer - rubber products manufacturing |
| **7245** | splicer - telecommunications |
| **7612** | splicer helper - telecommunications |
| **7245** | splicer technician - telecommunications |
| **7245** | splicer technician - telephone |
| **9423** | splicer, rubber |

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| **9423** | splicing machine tender - rubber products manufacturing |
| **9441** | splicing machine tender - textile manufacturing |
| **9441** | splitter - hide and pelt processing |
| **9431** | splitter - sawmill |
| **9437** | splitter - woodworking |
| **9431** | splitter operator - sawmill |
| **9414** | splitter tender, stone slabs |
| **9437** | splitting machine operator cork |
| **9423** | splitting machine tender - rubber products manufacturing |
| **9619** | splitting machine tender - shoe manufacturing |
| **9537** | spoked wheel assembler |
| **1123** | spokesperson |
| **9461** | sponge and dough mixer - food and beverage processing |
| **9423** | sponge rubber goods inspector |
| **9441** | sponge-range operator - textile manufacturing |
| **3144** | spontaneous art teacher - therapy |
| **9616** | spool carrier - textile processing |
| **9616** | spool hauler - textile processing |
| **9418** | spool winder |
| **9441** | spool winder - textile manufacturing |
| **9418** | spooler - metal products manufacturing |
| **9441** | spooler - textile manufacturing |
| **9441** | spooler operator, automatic - textile manufacturing |
| **9423** | spooler-twister operator - rubber products manufacturing |
| **9441** | spooling machine tender - textile manufacturing |
| **5122** | sport desk editor |
| **0513** | sport federation director general |
| **0513** | sport federation general director |
| **0513** | sport governing agency executive director |
| **0513** | sport governing body executive director |
| **0513** | sport program administrative co-ordinator |
| **9522** | sport utility vehicle (SUV) assembler |
| **9227** | sporting equipment manufacturing foreman/woman |
| **9619** | sporting goods filler |
| **9537** | sporting goods grip-wrapping machine tender |
| **9227** | sporting goods manufacturing supervisor |
| **6421** | sporting goods rental-shop attendant |
| **7445** | sporting goods repairer |
| **6421** | sporting goods salesperson - retail |
| **0621** | sporting goods store manager |
| **4167** | sports activities co-ordinator |
| **0513** | sports administration director - government |
| **1123** | sports agent |
| **4167** | sports analyst |
| **6722** | sports and leisure attendant |
| **4167** | sports and leisure consultant |
| **4167** | sports and leisure counsellor |
| **0513** | sports and leisure director |
| **5254** | sports and leisure leader |
| **6722** | sports and recreation attendant |
| **4167** | sports and recreation consultant |
| **4167** | sports and recreation counsellor |
| **0513** | sports and recreation director |
| **5254** | sports and recreation leader |
| **5231** | sports announcer |
| **0513** | sports association director |
| **0014** | sports association president |
| **6722** | sports attendant |
| **9537** | sports ball inspector and repairer |
| **9537** | sports ball moulder |
| **9537** | sports ball moulder press operator |
| **5241** | sports cartoonist |
| **6722** | sports centre attendant |
| **5252** | sports coach |
| **5123** | sports columnist |
| **5231** | sports commentator |
| **5253** | sports competition judge |
| **4167** | sports consultant |
| **4167** | sports co-ordinator |
| **4167** | sports counsellor |
| **0513** | sports director |
| **5122** | sports editor |
| **9227** | sports equipment assembly supervisor |
| **6722** | sports equipment attendant |
| **6722** | sports equipment custodian |
| **7445** | sports equipment repairer |
| **6722** | sports facility attendant |
| **0714** | sports facility manager |
| **0513** | sports federation director |
| **9537** | sports helmet assembler |
| **5254** | sports instructor |
| **5253** | sports judge |
| **5254** | sports leader |
| **5253** | sports linesman/woman |
| **3111** | sports medicine physician |
| **3111** | sports medicine specialist |
| **5253** | sports official |
| **4167** | sports policy analyst |
| **5226** | sports program co-ordinator - broadcasting |
| **4167** | sports program co-ordinator - sports and recreation |
| **0513** | sports program director |
| **4167** | sports program supervisor |
| **4167** | sports programs co-ordinator |
| **4167** | sports projects officer |
| **4151** | sports psychologist |
| **5253** | sports referee |
| **5123** | sports reporter |
| **5252** | sports scout |
| **4167** | sports supervisor |
| **5123** | sports writer - journalism |
| **5121** | sports writer - novels and books |
| **4167** | sports, recreation and leisure supervisor |

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| **4167** | sports, recreational and leisure programs supervisor |
| **5231** | sportscaster |
| **0513** | sports-service sports programs director |
| **7237** | spot resistance welder |
| **7237** | spot welder |
| **5227** | spotlight operator |
| **6741** | spotter - laundry and dry cleaning |
| **9619** | spray booth cleaner |
| **9214** | spray chamber supervisor - rubber and plastic products manufacturing |
| **9421** | spray dryer tender - chemical processing |
| **9527** | spray foam machine operator - electrical equipment manufacturing |
| **7445** | spray gun repairer |
| **9536** | spray paint machine operator |
| **9536** | spray paint machine tender |
| **9536** | spray paint operator |
| **9536** | spray painter |
| **9536** | spray painter - motor vehicle manufacturing |
| **9536** | spray painter - production |
| **9619** | spray painter helper |
| **2271** | spray pilot |
| **9534** | spray stainer - furniture finishing and refinishing |
| **9536** | spray stainer - production |
| **7611** | spray truck helper |
| **9441** | spray-coating machine tender - textile manufacturing |
| **8616** | sprayer - logging and forestry |
| **9534** | sprayer, rough shellac - furniture finishing and refinishing |
| **9441** | spraying machine tender - textile manufacturing |
| **7611** | spreader box tender |
| **9423** | spreader machine tender - rubber products manufacturing |
| **7521** | spreader operator - heavy equipment |
| **9423** | spreader operator - rubber products manufacturing |
| **9615** | spreader operator helper - plastic products manufacturing |
| **9423** | spreader tender - rubber products manufacturing |
| **9619** | spreader, machine - garment manufacturing |
| **9522** | spring assembler - motor vehicle manufacturing |
| **9418** | spring assembler, machine |
| **9418** | spring assembly machine operator |
| **9418** | spring coiler |
| **9619** | spring inserter - furniture manufacturing |
| **9418** | spring inspector |
| **7535** | spring installer |
| **9418** | spring machine operator |
| **9418** | spring machine set-up operator |
| **9418** | spring tester |
| **9418** | spring winder |
| **9418** | spring-coiling machine operator |
| **9619** | springer - furniture assembly |
| **9418** | spring-making machine operator |
| **9418** | spring-making machine set-up operator |
| **9418** | spring-winding machine operator |
| **7252** | sprinkler and fire protection installer |
| **7252** | sprinkler fitter |
| **7203** | sprinkler fitters foreman/woman |
| **7203** | sprinkler system contractor |
| **7252** | sprinkler system fitter |
| **7252** | sprinkler system installer |
| **7252** | sprinkler system installer (non-construction) |
| **7252** | sprinkler system installer apprentice |
| **7203** | sprinkler system installer foreman/woman |
| **7203** | sprinkler system installers supervisor |
| **7203** | sprinkler systems contractor |
| **7522** | sprinkling truck driver - public works |
| **5251** | sprinter |
| **9441** | spun yarn doubler - textile manufacturing |
| **9616** | spun yarn linker |
| **9217** | spun yarn preparation foreman/woman |
| **9217** | spun yarn preparation supervisor - textile processing |
| **9616** | spun yarn storekeeper |
| **9616** | spun yarn weigher |
| **7612** | squeak, rattle and leak locator |
| **9412** | squeezer machine operator - foundry |
| **9412** | squeezer moulder - foundry |
| **9437** | squeezer tender - woodworking |
| **7611** | stabber |
| **7611** | stabber - pipeline construction |
| **8431** | stable assistant |
| **8252** | stable boss |
| **8431** | stable hand |
| **8431** | stable worker |
| **8431** | stableman/woman |
| **9411** | stack dust leach operator - zinc casting |
| **7452** | stacker - material handling |
| **9619** | stacker - printing |
| **9614** | stacker - wood processing |
| **7521** | stacker operator - heavy equipment |
| **7452** | stacker operator - material handling |
| **9527** | stacking machine operator - electrical equipment manufacturing |
| **7452** | stacking machine operator - material handling |
| **7452** | stacking machine tender - material handling |
| **8612** | stadium groundskeeper |
| **0714** | stadium manager |
| **1312** | staff adjuster - insurance |
| **5231** | staff announcer |
| **4112** | staff counsel |
| **0431** | staff inspector |
| **0431** | staff inspector - police |
| **4112** | staff lawyer |
| **3012** | staff nurse |
| **1121** | staff relations administrator |

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| 0112 | staff relations chief |
| 0112 | staff relations manager |
| 1121 | staff relations officer |
| 4311 | staff sergeant - police |
| 4112 | staff solicitor |
| 0431 | staff superintendent - police |
| 2121 | staff toxicologist |
| 0112 | staff training and development chief |
| 0112 | staff training and development manager |
| 1121 | staff training and development officer |
| 1121 | staff training and development supervisor |
| 0112 | staff training co-ordinator |
| 1121 | staff training officer - human resources |
| 4021 | staff training officer - industry |
| 5123 | staff writer - newspaper |
| 1223 | staffing adviser |
| 1223 | staffing analyst |
| 1415 | staffing assistant |
| 0112 | staffing chief |
| 1415 | staffing clerk |
| 1223 | staffing co-ordinator |
| 1223 | staffing officer |
| 5226 | stage assistant director |
| 5227 | stage best boy |
| 7271 | stage carpenter |
| 5131 | stage director - performing arts |
| 5226 | stage electrician |
| 5226 | stage manager |
| 5132 | stage musical director |
| 5131 | stage producer |
| 5227 | stage production worker |
| 5227 | stage property person |
| 5243 | stage scenery designer |
| 5226 | stage technician |
| 5227 | stagehand |
| 9472 | stager - printing |
| 5227 | staging assistant |
| 5226 | staging supervisor |
| 7205 | stain glass installers foreman/woman |
| 6741 | stain remover |
| 5244 | stained glass artist |
| 5244 | stained glass designer |
| 7292 | stained glass glazier |
| 7205 | stained glass glaziers foreman/woman |
| 5244 | stained glass painter |
| 9413 | stained glass production worker |
| 7271 | stair builder-carpenter |
| 7204 | stair builders foreman/woman |
| 7441 | stair installer |
| 7271 | stairway carpenter |
| 9436 | stake grader - wood processing |
| 7612 | stakeman/woman - land surveying |
| 7612 | staker - detailer |
| 9537 | staking machine tender |
| 0621 | stamp dealer |
| 9619 | stamp filler |
| 9537 | stamp pad maker |
| 1511 | stamp-cancelling machine tender - postal services |
| 5251 | stampede performer |
| 5251 | stampede racer |
| 9611 | stamper - primary metal processing |
| 9619 | stamper and labeller |
| 7232 | stamping die finisher |
| 9473 | stamping press operator - printing |
| 5253 | standardbred judge - racetrack |
| 5251 | standardbred pacer |
| 5135 | standardized patient |
| 2112 | standards chemist |
| 1122 | standards co-ordinator |
| 1122 | standards specialist |
| 5121 | standards writer |
| 4168 | standing committee officer |
| 4168 | standing or select committee officer |
| 9611 | standpipe attendant, coke oven |
| 5135 | stand-up comedian |
| 9413 | staple cutter - glass products manufacturing |
| 9441 | staple cutter - textile manufacturing |
| 9418 | staple machine set-up operator |
| 9441 | staple processing machine tender - textile manufacturing |
| 9537 | stapling machine tender |
| 9617 | starch centrifuge tender |
| 9461 | starch converter |
| 9617 | starch factory labourer - food and beverage processing |
| 9461 | starch maker - food and beverage processing |
| 9461 | starch press tender |
| 9461 | starch separator operator |
| 9465 | starch tester - food and beverage processing |
| 9461 | starch washer - food and beverage processing |
| 6523 | station agent - airline |
| 6524 | station agent - railway |
| 7304 | station agent - railway transport |
| 7534 | station attendant - air transport |
| 4311 | station duty officer - police |
| 4311 | station officer - police |
| 9241 | station operator - electrical power systems |
| 6523 | station services agent - airline |
| 9241 | stationary diesel engine operator |
| 7612 | stationary engine oiler |
| 9241 | stationary engineer |
| 9241 | stationary engineer "A" and refrigeration plant operator |
| 9241 | stationary engineer "B" and refrigeration plant operator |
| 9241 | stationary engineer apprentice |
| 9212 | stationary engineer foreman/woman |
| 9613 | stationary engineer helper |
| 9212 | stationary engineers supervisor |
| 7311 | stationary farm equipment mechanic |
| 9241 | stationary operating engineer |

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| 9241 | stationary power engineer |
| 0621 | stationery store manager |
| 7304 | stationmaster |
| 7304 | stationmaster - railway transport |
| 1123 | stations-relations administrator |
| 2161 | statistical analysis supervisor |
| 2161 | statistical analyst |
| 1454 | statistical assistant |
| 1454 | statistical clerk |
| 1213 | statistical clerks supervisor |
| 2161 | statistical consultant |
| 0212 | statistical department director |
| 2161 | statistical methodologist |
| 1254 | statistical officer |
| 0212 | statistical service manager |
| 1254 | statistical technician |
| 2161 | statistician |
| 9525 | stator inspector - industrial electrical equipment |
| 9525 | stator-core and rotor-core builder and welder - industrial electrical equipment |
| 4164 | status of women's directorate policy analyst |
| 9431 | stave bolt saw operator |
| 9431 | stave bolt sawyer - sawmill |
| 9533 | stave inspector, wood |
| 9437 | stave jointer - woodworking |
| 9437 | stave machine operator - woodworking |
| 9437 | stave sawyer - woodworking |
| 9435 | stayer machine tender - paper converting |
| 9619 | steam cabinet attendant - garment manufacturing |
| 9441 | steam cabinet operator - textile manufacturing |
| 6732 | steam cleaner |
| 9461 | steam dryer - food and beverage processing |
| 9212 | steam engineers foreman/woman |
| 6741 | steam finisher - laundry and dry cleaning |
| 7611 | steam fitter's helper - construction |
| 9416 | steam hammer operator - metal forging |
| 7252 | steam heating installer |
| 9461 | steam kettle operator - food and beverage processing |
| 7252 | steam main servicer |
| 7445 | steam meter repairer |
| 9241 | steam operator |
| 9461 | steam oven operator - food and beverage processing |
| 7252 | steam pipefitter |
| 9212 | steam plant engineers foreman/woman |
| 9212 | steam plant foreman/woman |
| 7311 | steam plant maintenance mechanic |
| 9241 | steam plant operator |
| 9241 | steam power plant stationary engineer |
| 6741 | steam press operator - laundry and dry cleaning |
| 6741 | steam presser - laundry and dry cleaning |
| 6742 | steam room attendant |
| 9441 | steam sponger - textile manufacturing |
| 6711 | steam table attendant - food services |
| 9461 | steam table operator - food and beverage processing |
| 9414 | steam tank operator - stone products |
| 6741 | steam tunnel operator - laundry and dry cleaning |
| 9241 | steam turbine operator - electrical power systems |
| 7311 | steam turbine repairer |
| 6732 | steamblaster |
| 6732 | steamblasting building cleaner |
| 9461 | steamer - tobacco processing |
| 9441 | steamer tender - textile manufacturing |
| 7252 | steamfitter |
| 7252 | steamfitter - shipbuilding |
| 7203 | steamfitter foreman/woman |
| 7252 | steamfitter/pipefitter (non-construction) |
| 7252 | steamfitter-pipefitter |
| 7203 | steamfitters supervisor |
| 9414 | steam-pressure cylinder tender - clay products |
| 2253 | steel detailer - drafting |
| 9471 | steel die printer |
| 7236 | steel door setting ironworker |
| 5244 | steel engraver - arts and crafts |
| 7611 | steel erector helper |
| 7235 | steel fabricator |
| 7235 | steel fabricator - structural metal and platework |
| 7235 | steel fitter - metal platework |
| 7235 | steel fitter - structural metal |
| 7201 | steel fitter foreman/woman - metal fabrication |
| 8411 | steel form setter - underground mining |
| 7611 | steel form setting worker |
| 7611 | steel forms setter helper |
| 2253 | steel frame draftsman/woman |
| 2253 | steel frame draftsperson |
| 7201 | steel frame erectors foreman/woman |
| 7271 | steel framer - carpentry |
| 9231 | steel heater operator |
| 9415 | steel inspector - primary metal processing |
| 1523 | steel mill control officer |
| 0911 | steel mill manager |
| 9211 | steel mill shift co-ordinator |
| 9611 | steel plant labourer |
| 9526 | steel plate caulker - shipbuilding |
| 7235 | steel plate shaper - ships |
| 9411 | steel pourer |
| 6221 | steel product sales representative |
| 7201 | steel rigger foreman/woman |
| 9411 | steel roller |
| 9411 | steel rougher |
| 9415 | steel sheet inspector - primary metal processing |
| 9416 | steel shot machine operator |

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| 8241 | steel spar operator - logging |
| 9411 | steel straightener operator |
| 7201 | steel structure erectors foreman/woman |
| 7201 | steel structure forming, shaping and erecting contractor |
| 7271 | steel stud framer - carpentry |
| 9415 | steel tester - primary metal processing |
| 9411 | steel treater - primary metal processing |
| 7201 | steel truss erectors foreman/woman |
| 9418 | steel wool machine operator |
| 9231 | steel-degasser process operator |
| 7232 | steel-rule die maker |
| 8411 | steelwork erector - underground mining |
| 7384 | steeplejack |
| 9461 | steepman/woman - food and beverage processing |
| 9526 | steering box assembler |
| 9461 | stem cutter - tobacco processing |
| 9461 | stem roller - tobacco processing |
| 9461 | stem-flattening machine operator - tobacco processing |
| 9461 | stem-flattening machine tender - tobacco processing |
| 9461 | stemming machine operator - tobacco processing |
| 9414 | stencil cutter - stone products |
| 5223 | stencil marker |
| 5223 | stencil marker - graphic arts |
| 9472 | stencil preparer |
| 9471 | stencil silk-screen printing machine operator |
| 9441 | stender tender |
| 1251 | stenotype operator |
| 9472 | step and repeat camera operator |
| 0621 | stereo equipment store manager |
| 2242 | stereo repair technician |
| 5225 | stereo tape editor |
| 9472 | stereotyper |
| 7303 | stereotypists and electroplaters foreman/woman |
| 3414 | sterile processing technician |
| 3414 | sterile processing worker |
| 9232 | sterile products processor - chemical processing |
| 3414 | sterile supply room attendant |
| 3414 | sterilization attendant |
| 3414 | sterilization processing attendant |
| 9461 | sterilizer machine operator - food and beverage processing |
| 9461 | sterilizer operator - food and beverage processing |
| 9537 | sterilizer operator - surgical equipment manufacturing |
| 7451 | stevedore |
| 7302 | stevedores foreman/woman |
| 7302 | stevedoring foreman/woman |
| 6513 | steward - food and beverage services |
| 1225 | stewardship officer |
| 9613 | still cleaner - chemical processing |
| 9461 | still operator - brewery |
| 5221 | still photographer |
| 9421 | still tender |
| 9619 | stitch separator and simulator - shoe manufacturing |
| 9446 | stitcher - garment manufacturing |
| 9473 | stitcher operator - printing |
| 9437 | stitcher operator - woodworking |
| 9473 | stitcher set-up operator - printing |
| 9217 | stitchers foreman/woman - fabric, fur and leather products manufacturing |
| 9473 | stitcher-trimmer operator - printing |
| 9217 | stitching department foreman/woman - fabric, fur and leather products manufacturing |
| 9217 | stitching department supervisor |
| 9217 | stitching department supervisor - fabric, fur and leather products manufacturing |
| 9446 | stitching machine operator - industrial sewing machine |
| 9473 | stitching machine operator - printing |
| 9473 | stitching machine set-up operator - printing |
| 8431 | stock attendant |
| 5251 | stock car racer |
| 1522 | stock clerk - parts and equipment |
| 6622 | stock clerk - retail |
| 1215 | stock clerks supervisor |
| 6211 | stock clerks supervisor - retail |
| 1522 | stock control clerk |
| 1215 | stock control supervisor |
| 9437 | stock cutter - woodworking |
| 1113 | stock exchange floor trader |
| 9532 | stock grader - furniture manufacturing |
| 1521 | stock handler |
| 6622 | stock handler - food store |
| 7452 | stock helper |
| 1522 | stock keeper |
| 9615 | stock lay-up man/woman - rubber products manufacturing |
| 5123 | stock market reporter |
| 9441 | stock mixer - textile manufacturing |
| 9214 | stock preparation foreman/woman - rubber manufacturing |
| 9615 | stock preparer - rubber products manufacturing |
| 1521 | stock receiver |
| 1522 | stock records clerk |
| 6211 | stock supervisor - retail |
| 9432 | stock tester - pulp and paper |
| 9432 | stock washer - pulp and paper |
| 1113 | stockbroker |
| 9447 | stocking inspector |
| 9446 | stocking stitcher |
| 7452 | stock-keeper helper |
| 7452 | stockpiler |
| 6622 | stockroom clerk - retail |

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| 1113 | stocks and bonds trader |
| 8252 | stockyard and herdsmen foreman/woman |
| 8431 | stockyard attendant |
| 7532 | stoker - ships |
| 7331 | stoker erector |
| 3113 | stomatologist |
| 9611 | stone bed setter - mineral products processing |
| 9414 | stone beveller |
| 9414 | stone driller |
| 9414 | stone driller - stone products |
| 8614 | stone duster - underground mining |
| 9414 | stone grinder tender |
| 9415 | stone inspector - mineral products processing |
| 9414 | stone layout marker |
| 9414 | stone planer |
| 9414 | stone polisher, machine |
| 9211 | stone processing foreman/woman |
| 9414 | stone products buffer |
| 9414 | stone products machine operator |
| 9211 | stone products manufacturing foreman/woman |
| 9414 | stone products moulder |
| 9414 | stone products polisher |
| 9414 | stone sandblaster |
| 9414 | stone saw operator |
| 7445 | stone saw setter |
| 9414 | stone sawyer - stone products |
| 7281 | stone setter |
| 9414 | stone slab splitter tender |
| 7281 | stonecutter |
| 6344 | stonecutter - jewellery |
| 9414 | stonecutter - stone products |
| 7281 | stonemason |
| 7205 | stonemason foreman/woman |
| 7205 | stonemasonry contractor |
| 6344 | stonesetter - jewellery |
| 9414 | stonework block maker |
| 9414 | stonework drill press operator |
| 9414 | stonework engraver - stone products |
| 9611 | stonework filler - mineral products processing |
| 9414 | stonework moulder |
| 7384 | stonework patternmaker |
| 9414 | stonework sandblast operator |
| 9414 | stonework saw operator |
| 9414 | stonework stencil cutter |
| 8231 | stope driller - underground mining |
| 8221 | stope foreman/woman - mining |
| 8231 | stope miner |
| 9527 | storage battery assembler |
| 9527 | storage battery assembly line operator |
| 9527 | storage battery charger - electrical equipment manufacturing |
| 7333 | storage battery repairer |
| 9525 | storage battery salvager |
| 9527 | storage battery tester |
| 9527 | storage battery tube filler - electrical equipment manufacturing |
| 6421 | storage facility leasing clerk |
| 6421 | storage facility rental clerk |
| 7302 | storage foreman/woman |
| 7452 | storage man/woman |
| 1225 | storage purchasing co-ordinator |
| 6411 | storage services sales representative |
| 6421 | storage space rental clerk |
| 9619 | storage worker - ice processing |
| 7452 | storage worker - material handling |
| 6421 | store clerk |
| 6541 | store detective |
| 5243 | store display designer |
| 0621 | store manager - retail |
| 1522 | storekeeper |
| 1522 | storeman/woman |
| 5135 | story teller |
| 5241 | storyboard artist |
| 5121 | storyboarder |
| 9536 | stove refinisher |
| 7332 | stove repairer |
| 7332 | stove repairman/woman electric |
| 7332 | stove serviceman/woman electric |
| 9536 | stove varnisher |
| 9613 | stove-bottom worker |
| 9613 | stove-carriage worker |
| 6524 | stowage clerk |
| 7451 | stower |
| 7452 | straddle carrier operator |
| 7452 | straddle truck operator |
| 9417 | straight bevel-gear cutting machine set-up operator |
| 9417 | straight bevel-gear generator set-up operator |
| 9416 | straight line press setter - metal fabrication |
| 5135 | straight man |
| 9416 | straightener hand - metal fabrication |
| 9411 | straightening feeder operator |
| 9411 | straightening machine operator |
| 9416 | straightening press operator - metal fabrication |
| 9423 | strainer tender - rubber products manufacturing |
| 9412 | strand operator - foundry |
| 9441 | strand-forming machine tender - textile manufacturing |
| 9418 | stranding machine operator |
| 9423 | strap machine tender - rubber products manufacturing |
| 9413 | strapping machine operator - glass manufacturing |
| 1224 | strata property manager |
| 2113 | stratigrapher |
| 5232 | street entertainer |
| 7522 | street flusher operator |
| 7522 | street flusher operator - public works |

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|---|---|
| 6711 | street food vendor |
| 5133 | street musician |
| 4212 | street outreach worker |
| 7521 | street paver operator |
| 5221 | street photographer |
| 7305 | street railway and subway operators supervisor |
| 7305 | street railway operators supervisor |
| 7522 | street sprinkler operator - public works |
| 7522 | street sweeper operator |
| 7522 | street sweeper operator - public works |
| 6623 | street vendor |
| 7314 | streetcar and subway car mechanic |
| 7305 | streetcar and subway operators supervisor |
| 6732 | streetcar cleaner |
| 7512 | streetcar conductor |
| 7314 | streetcar mechanic |
| 7512 | streetcar operator |
| 7305 | streetcar operators supervisor |
| 7302 | streetcar track foreman/woman |
| 7244 | streetlight repairer |
| 7244 | streetlight repairer - electric power systems |
| 7244 | streetlight serviceman/woman - electric power systems |
| 7244 | streetlight servicer - electric power systems |
| 4212 | streetworker - social services |
| 2146 | stress engineer - aerospace |
| 6741 | stretcher dryer - laundry and dry cleaning |
| 9411 | stretcher-leveller operator - primary metal processing |
| 9441 | stretching machine operator - hide and pelt processing |
| 9441 | stretching machine tender - textile fibre |
| 9441 | stretching machine tender - textile manufacturing |
| 9441 | strike-off machine tender - textile manufacturing |
| 5244 | stringed instrument maker |
| 7445 | stringed instrument repairer |
| 9537 | stringing machine feeder |
| 9423 | strip machine operator - rubber products manufacturing |
| 7302 | strip mine blasting foreman/woman |
| 9461 | strip-cutting and blending operator - tobacco processing |
| 9461 | strip-cutting machine tender - tobacco processing |
| 9472 | stripper - printing |
| 9472 | stripper-image assembler - printing |
| 9472 | stripper-layout specialist - printing |
| 9461 | stripping machine operator - tobacco processing |
| 9445 | stripping machine tender - leather products manufacturing |
| 9461 | stripping machine tender - tobacco processing |
| 7535 | stripping shovel oiler |
| 7521 | stripping shovel operator |
| 9416 | strip-roll-forming machine operator - metal fabrication |
| 9416 | strip-roll-forming machine tender - metal fabrication |
| 5232 | striptease dancer |
| 2131 | structural design engineer |
| 2231 | structural design technologist |
| 2253 | structural draftsperson |
| 2131 | structural engineer |
| 2231 | structural engineering technician |
| 4312 | structural firefighter |
| 2113 | structural geologist |
| 7292 | structural glass glazier |
| 7292 | structural glass installer |
| 7521 | structural hydraulic jack erector |
| 2231 | structural investigator |
| 7236 | structural iron erector |
| 2264 | structural ironwork inspector |
| 7236 | structural ironworker |
| 7235 | structural metal and platework fabricator |
| 7235 | structural metal and platework fabricator apprentice |
| 7235 | structural metal and platework fitter |
| 7235 | structural metal and platework fitter-welder |
| 7235 | structural metal and platework layout developer |
| 7235 | structural metal and platework layout marker |
| 7235 | structural metal and platework plater |
| 7236 | structural metal erector |
| 7201 | structural metal erector foreman/woman |
| 7235 | structural metal fabricator |
| 7201 | structural metal fabricator foreman/woman |
| 7235 | structural metal fitter |
| 9612 | structural metal fitter helper |
| 7201 | structural metal fitter supervisor |
| 7235 | structural metal fitter-assembler |
| 7235 | structural metal layout marker |
| 7235 | structural metal worker |
| 7611 | structural plate fitter helper - construction |
| 7315 | structural repair technician |
| 7235 | structural steel and platework fitter |
| 7201 | structural steel contractor |
| 2253 | structural steel detailer |
| 2253 | structural steel drafter-detailer |
| 2253 | structural steel draftsperson |
| 7201 | structural steel erecting contractor |
| 7236 | structural steel erector |
| 7611 | structural steel erector helper |
| 7235 | structural steel fabricator |
| 7235 | structural steel fitter |
| 9612 | structural steel fitter helper |
| 2264 | structural steel inspector |
| 7235 | structural steel plate shaper |
| 7235 | structural steel plate worker-fitter |
| 7201 | structural steel worker foreman/woman |
| 7235 | structural steelwork and platework fitter |

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| 7441 | structure seat installer |
| 7245 | structured cabling technician |
| 2146 | structures aerospace engineer |
| 7315 | structures aircraft maintenance engineer (AME) |
| 7315 | structures mechanic |
| 7284 | stucco lather |
| 7284 | stucco plasterer |
| 7205 | stucco plasterers foreman/woman |
| 0421 | student activities dean |
| 4033 | student affairs and employment officer |
| 0421 | student affairs director |
| 1221 | student aid officer |
| 1221 | student assistance officer |
| 0413 | student assistance program director |
| 3217 | student cardiology technologist |
| 4033 | student counsellor |
| 3221 | student dental mechanic |
| 3221 | student denturist |
| 4033 | student employment services co-ordinator |
| 6235 | student loans officer |
| 3216 | student medical sonographer |
| 4413 | student monitor |
| 3231 | student optician |
| 1223 | student placement officer |
| 1123 | student recruiter - post-secondary education |
| 6731 | student residence cleaner |
| 0632 | student residence manager |
| 4033 | student services counsellor |
| 3216 | student sonographer - medical |
| 4413 | student support assistant |
| 4112 | student-at-law |
| 5226 | studio administrator |
| 5222 | studio camera operator |
| 7271 | studio carpenter |
| 5226 | studio electrician |
| 5226 | studio manager |
| 5226 | studio manager - broadcasting |
| 9472 | studio-image-processing system operator |
| 9537 | stuffing machine operator |
| 9537 | stuffing machine tender |
| 9537 | stuffing machine tender - toys |
| 9437 | stummel trimmer - woodworking |
| 9437 | stummel turner - woodworking |
| 9617 | stunner and shackler - meat packing |
| 5226 | stunt co-ordinator |
| 5232 | stunt performer |
| 5232 | stunt rider |
| 5232 | stuntman/woman |
| 9521 | subassembler - aircraft assembly |
| 9532 | subassembler - furniture manufacturing |
| 9522 | subassembler - motor vehicle manufacturing |
| 4423 | subdivision control officer |
| 5122 | sub-editor |
| 4166 | subject consultant - education |
| 0433 | sub-lieutenant |
| 7237 | submerged arc welder |
| 7237 | submerged arc welding machine operator |
| 1511 | sub-post office clerk |
| 6623 | subscription agent - retail |
| 1411 | subscription clerk |
| 6211 | subscription sales team leader |
| 6623 | subscription solicitor |
| 2145 | subsea engineer |
| 4421 | sub-sheriff |
| 4212 | substance abuse worker |
| 7243 | substation electrician - electrical power system |
| 9241 | substation inspector - electrical power systems |
| 9241 | substation operator |
| 9241 | substation operator - electrical power systems |
| 9613 | substation operator helper |
| 4031 | substitute high school teacher |
| 4032 | substitute teacher - elementary school |
| 4031 | substitute teacher - secondary school |
| 7305 | subway and street railway operators supervisor |
| 7305 | subway and streetcar operators supervisor |
| 6732 | subway car cleaner |
| 7314 | subway car mechanic |
| 7305 | subway controller |
| 7305 | subway operators foreman/woman |
| 7305 | subway operators supervisor |
| 1526 | subway scheduler |
| 7305 | subway system traffic controller |
| 7305 | subway traffic controller |
| 7512 | subway train operator |
| 1228 | succession duty auditor - taxation |
| 6741 | suede cleaner - laundry and dry cleaning |
| 0821 | sugar beet farmer |
| 9461 | sugar boiler |
| 9617 | sugar boiler helper |
| 8431 | sugar bush worker |
| 9213 | sugar filter house foreman/woman |
| 9617 | sugar grinder |
| 0821 | sugar maple grower |
| 9213 | sugar processing workers foreman/woman |
| 9213 | sugar refining foreman/woman |
| 9465 | sugar tester |
| 8431 | sugar-beet farm worker |
| 8252 | sugarbush operation foreman/woman |
| 9461 | sugar-processing machine operator |
| 9217 | suitmaking foreman/woman |
| 5251 | sulky driver |
| 9421 | sulphonator |
| 9411 | sulphur control operator - zinc pressure leach |
| 9232 | sulphuric acid plant operator |
| 9613 | sulphuric acid plant operator helper |
| 6742 | suntan studio attendant |
| 6533 | super pan 9 croupier |
| 1434 | superannuation clerk - financial sector |

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| **1432** | superannuation clerk - government |
| **9614** | supercalender helper - pulp and paper |
| **9433** | supercalender operator - pulp and paper |
| **1521** | supercargo |
| **9441** | super-draft tender |
| **2122** | superintendent - forestry |
| **0431** | superintendent - police |
| **0422** | superintendent of academic affairs |
| **0422** | superintendent of education programs |
| **0422** | superintendent of education programs in public schools |
| **0422** | superintendent of educational services |
| **0422** | superintendent of elementary education |
| **0422** | superintendent of elementary schools |
| **0012** | superintendent of financial institutions |
| **0422** | superintendent of operations - schools |
| **0422** | superintendent of professional development - schools |
| **0422** | superintendent of secondary schools |
| **6525** | superintendent of services - hotel |
| **0422** | superintendent of special education |
| **0422** | superintendent of student services |
| **0731** | superintendent of transportation |
| **4111** | superior court justice |
| **6331** | supermarket butcher |
| **6611** | supermarket cashier |
| **6622** | supermarket clerk |
| **6211** | supermarket department supervisor |
| **7452** | supermarket jigger operator |
| **0621** | supermarket manager |
| **6421** | supermarket meat clerk |
| **6331** | supermarket meat cutter |
| **6622** | supermarket produce clerk |
| **4212** | supervised access worker |
| **6321** | supervising chef |
| **2144** | supervising engineer - petrography |
| **2144** | supervising engineer - rock sciences |
| **9222** | supervisor - electronic equipment manufacturing |
| **9213** | supervisor - meat packing |
| **6211** | supervisor - retail |
| **9213** | supervisor - vegetable packing |
| **3234** | supervisor ambulance attendants |
| **7205** | supervisor bricklaying |
| **7205** | supervisor cement finishing |
| **1212** | supervisor of accounting |
| **7302** | supervisor of public works road maintenance workers |
| **4167** | supervisor, sports programs |
| **6316** | supervisor, ushers |
| **6411** | supplier - wholesale |
| **1215** | supply and receiving supervisor |
| **6552** | supply and return clerk |
| **8221** | supply boss - mining |
| **1522** | supply centre clerk |
| **1521** | supply chain assistant |
| **1523** | supply chain co-ordinator - production |
| **0113** | supply chain director |
| **0113** | supply chain logistics manager |
| **0113** | supply chain manager |
| **1122** | supply chain process analyst |
| **1315** | supply chain specialist - customs brokerage |
| **1225** | supply chain specialist - procurement |
| **1215** | supply chain supervisor |
| **0113** | supply chief |
| **1524** | supply clerk |
| **1523** | supply clerk - aeronautics |
| **1523** | supply clerk - production |
| **1215** | supply control co-ordinator |
| **8221** | supply foreman/woman - mining |
| **4031** | supply high school teacher |
| **1523** | supply needs estimator |
| **0113** | supply service chief |
| **4032** | supply teacher - elementary school |
| **3414** | supply, processing and distribution aide - medical |
| **0113** | supply-management director |
| **5121** | support materials writer |
| **8411** | support miner |
| **0114** | support services administrative manager |
| **3413** | support services assistant - medical |
| **0114** | support services manager |
| **0013** | support services vice-president - financial, communications and other business services |
| **0016** | support services vice-president - goods production, utilities, transportation and construction |
| **0014** | support services vice-president - health, education, social and community services and membership organizations |
| **0015** | support services vice-president - trade, broadcasting and other services |
| **1227** | Supreme Court clerk |
| **4111** | Supreme Court justice |
| **4111** | Supreme Court of Canada justice |
| **1227** | Supreme Court registrar |
| **1313** | surety underwriter - insurance |
| **8221** | surface foreman/woman - mining |
| **9417** | surface grinder set-up operator |
| **0125** | surface land administration manager |
| **7302** | surface mine blasting foreman/woman |
| **8221** | surface mine foreman/woman |
| **8221** | surface mine supervisor |
| **7521** | surface mining equipment operator |
| **9523** | surface mount assembler |
| **9523** | surface mount assembler - electronic equipment manufacturing |
| **9437** | surface planer operator - woodworking |
| **9414** | surface plate finisher - concrete, clay and stone products |
| **2255** | surface weather observer |
| **9417** | surface-grinder operator, production |
| **3111** | surgeon |
| **4011** | surgery professor - university |

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| **3413** | surgical aide |
| **3219** | surgical appliance fitter |
| **3414** | surgical assistant |
| **3414** | surgical assistant - non-nursing |
| **3011** | surgical co-ordinator - nursing |
| **3219** | surgical fitter |
| **3012** | surgical intensive care nurse |
| **3233** | surgical nursing assistant |
| **9442** | surgical pad knitter |
| **3111** | surgical pathologist |
| **3111** | surgical physician |
| **3111** | surgical resident |
| **6221** | surgical supply salesperson |
| **3414** | surgical technician - non-nursing |
| **3233** | surgical technician - nursing |
| **3011** | surgical ward supervisor - nursing |
| **1434** | surgical-medical claims clerk - insurance |
| **1221** | surplus assets officer |
| **1227** | surrogate court registrar |
| **0114** | surveillance department manager - casino |
| **0131** | surveillance manager - telecommunications |
| **6541** | surveillance operator - casino |
| **6316** | surveillance supervisor - casino |
| **1454** | survey compiler |
| **2253** | survey draftsperson |
| **2131** | survey engineer |
| **1454** | survey interviewer |
| **1213** | survey interviewers supervisor |
| **2271** | survey pilot |
| **0411** | survey research director - government services |
| **0411** | survey research manager - government services |
| **0125** | survey research service manager |
| **2161** | survey statistician |
| **1454** | survey taker |
| **1454** | survey team notekeeper |
| **7445** | surveying and optical instrument repairer |
| **7445** | surveying and optical instrument technician |
| **7612** | surveying and optical instruments repairer helper |
| **2131** | surveying engineer |
| **7612** | surveyor helper |
| **7445** | survival equipment repairer |
| **6321** | sushi chef |
| **6711** | sushi preparer |
| **9537** | suture material winder |
| **9522** | SUV (sport utility vehicle) assembler |
| **8616** | swamper - logging and forestry |
| **8615** | swamper - oil and gas |
| **8615** | swamper - oil field services |
| **7622** | swamper - truck transport |
| **9447** | swatch checker - textiles |
| **6731** | sweeper |
| **5252** | swim coach |
| **5251** | swimmer |
| **5252** | swimming coach |
| **5254** | swimming instructor - recreation |
| **5254** | swimming instructor - sports |
| **6732** | swimming pool cleaner |
| **7205** | swimming pool contractor |
| **5243** | swimming pool designer |
| **7441** | swimming pool filter and heater installer |
| **7205** | swimming pool installation contractor |
| **7441** | swimming pool installer |
| **0651** | swimming pool maintenance service manager |
| **7441** | swimming pool repairer |
| **7441** | swimming pool servicer |
| **7441** | swimming pool worker |
| **8252** | swine herdsperson |
| **8431** | swine technician |
| **6311** | swing manager - fast food restaurant |
| **9437** | swing-type lathe operator - woodworking |
| **7361** | switch engineer - railway |
| **7246** | switch network installer and repairer |
| **7246** | switch network installer and repairer - telecommunications |
| **7531** | switch tender - railway yard |
| **1414** | switchboard operator |
| **1211** | switchboard operators supervisor |
| **7246** | switched communication electrician |
| **7246** | switched network repairer |
| **7246** | switched networks installer |
| **7531** | switcher - railway yard |
| **9525** | switchgear and control panel assembler - industrial electrical equipment |
| **9525** | switchgear assembler and wirer |
| **9223** | switchgear assembly foreman/woman |
| **9525** | switchgear fitter-wirer |
| **9525** | switchgear fitter-wirer - industrial electrical equipment |
| **9525** | switchgear panel assembler - industrial electrical equipment |
| **9525** | switchgear panel installer-fitter |
| **9525** | switchgear rack assembler - industrial electrical equipment |
| **7333** | switchgear repair electrical mechanic |
| **7531** | switching station switcher - railway yard |
| **0131** | switching systems director - telecommunications |
| **7531** | switchman/woman - railway |
| **7246** | switchman/woman - telecommunications |
| **7612** | switchman/woman helper - telecommunications |
| **8262** | swordfish fisherman/woman |
| **2114** | synoptic meteorologist |
| **9232** | synthesis chief operator |
| **2242** | synthesizer repairer |
| **9422** | synthetic marble production worker |
| **2211** | synthetic textiles technician |
| **9461** | syrup kettle operator |
| **9461** | syrup maker |
| **2281** | system administrator |

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| **9241** | system control centre operator - electrical power systems |
| **9241** | system controller - electrical power systems |
| **2171** | system integration analyst |
| **2171** | system integration consultant |
| **9241** | system operator - electrical power systems |
| **2171** | systems analyst |
| **2173** | systems applications engineer |
| **2173** | systems architect |
| **2171** | systems auditor |
| **2121** | systems biologist |
| **2171** | systems business re-engineering analyst |
| **2171** | systems consultant |
| **2147** | systems designer - hardware |
| **0213** | systems development manager |
| **2141** | systems engineer - manufacturing |
| **2173** | systems engineer - software |
| **0213** | systems implementation manager - computer systems |
| **2174** | systems programmer |
| **2171** | systems QA (quality assurance) analyst |
| **2171** | systems quality assurance (QA) analyst |
| **2171** | systems security analyst |
| **2171** | systems security planner |
| **6221** | systems software support sales representative |
| **2171** | systems specialist - computer systems |
| **2282** | systems support representative |
| **2282** | systems technical support analyst |
| **9222** | systems test foreman/woman |
| **9222** | systems test foreman/woman - electronic equipment manufacturing |
| **2283** | systems tester |
| **9222** | systems testing supervisor - electronic equipment manufacturing |
| **2283** | systems testing technician |

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| **9532** | table assembler |
| **5232** | table dancer |
| **5251** | table tennis player |
| **9437** | table top edger - woodworking |
| **9437** | table top laminator - woodworking |
| **9537** | tablet maker |
| **9537** | tablet-coating machine operator |
| **9537** | tablet-making machine tender |
| **9471** | tabulating cards printer |
| **1212** | tabulating supervisor |
| **1212** | tabulation supervisor |
| **1212** | tabulators supervisor |
| **9418** | tack maker |
| **7237** | tack welder |
| **9537** | tacker - footwear manufacturing |
| **9446** | tacking machine operator - sewing |
| **5125** | tactile interpreter |
| **9435** | tag machine tender - paper converting |
| **6741** | tagger - laundry and dry cleaning |
| **9471** | tag-printing machine tender |
| **5254** | tai-chi instructor |
| **7362** | tail-end brakeman/woman |
| **9611** | tailings disposal labourer - primary metal processing |
| **9611** | tailings labourer |
| **9411** | tailings thickener tender - primary metal processing |
| **6342** | tailor |
| **6342** | tailor supervisor |
| **6711** | take-out attendant - fast food |
| **7514** | takeout pizza driver |
| **1123** | talent agent |
| **1123** | talent representative |
| **5231** | talk show host/hostess |
| **9432** | tall oil operator |
| **9461** | tallow extractor tender - food processing |
| **9461** | tallow refiner |
| **1523** | tally clerk |
| **1523** | tallyman/woman |
| **1523** | tallyman/woman - production |
| **7611** | tamper operator |
| **7611** | tamper operator - construction |
| **7531** | tamper operator - railway |
| **7531** | tamper-aligner operator - railway |
| **7531** | tamping machine operator - railway |
| **9411** | tandem roller - primary metal processing |
| **9533** | tank assembler, wood |
| **9617** | tank attendant - food and beverage processing |
| **7611** | tank builder helper |
| **9612** | tank calibrator - metal products manufacturing |
| **6732** | tank car cleaner |
| **7531** | tank car controller - railway yard |
| **6732** | tank cleaner |
| **9232** | tank farm operator |
| **9423** | tank liner - rubber products manufacturing |
| **9533** | tank stave assembler, wood |
| **9411** | tank tender |
| **9411** | tank tender - primary metal processing |
| **7511** | tank truck driver |
| **7452** | tank truck loader |
| **7451** | tanker loader |
| **7451** | tanker loader - marine cargo handling |
| **7532** | tanker pumper - ship |
| **7451** | tankerman/woman - marine cargo handling |
| **9411** | tankhouse equipment operator - primary metal processing |
| **9211** | tankhouse foreman/woman - primary metal and mineral products processing |
| **9611** | tankhouse helper - primary metal processing |
| **9461** | tankhouse operator - food and beverage processing |
| **9441** | tanner - hide and pelt processing |

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| **9217** | tannery foreman/woman |
| **9217** | tannery foreman/woman - hide and pelt processing |
| **7311** | tannery machinery repairer |
| **9217** | tannery supervisor - hide and pelt processing |
| **9441** | tannery vatman/woman |
| **6742** | tanning salon attendant |
| **0651** | tanning salon manager |
| **9441** | tanning solution preparer |
| **6742** | tanning studio attendant |
| **9217** | tanyard foreman/woman - hide and pelt processing |
| **5134** | tap dance teacher |
| **5134** | tap dancer |
| **9523** | tape cartridge and cassette assembler |
| **9523** | tape cartridge and cassette inspector |
| **9471** | tape rule printer |
| **9441** | tape-folding machine tender |
| **9527** | taper operator - electrical equipment manufacturing |
| **9527** | taper tender - electrical equipment manufacturing |
| **9527** | taping machine tender - electrical equipment manufacturing |
| **6512** | tapman/woman |
| **9611** | tapper - glass manufacturing |
| **9611** | tapper - primary metal processing |
| **9211** | tapper operations foreman/woman - mineral and metal processing |
| **9611** | tapper, glass - mineral products processing |
| **9418** | tapping machine tender |
| **7291** | tar and gravel roofer |
| **9611** | tar chaser, coke oven |
| **9441** | tar machine tender - textile manufacturing |
| **7291** | tar roofer |
| **9617** | tare assessor - food and beverage processing |
| **1431** | tariff clerk |
| **4112** | tariff counsel |
| **7302** | tarmac paving foreman/woman |
| **6564** | tarot card reader |
| **9537** | tarpaulin finisher |
| **9461** | tart maker - food and beverage processing |
| **4168** | task force officer |
| **9442** | tassel machine tender - textiles |
| **6562** | tattoo artist |
| **6562** | tattooer |
| **6562** | tattooist |
| **1111** | tax accountant |
| **1111** | tax adviser |
| **1111** | tax analyst |
| **1228** | tax appeal officer |
| **1228** | tax assessor |
| **4112** | tax attorney |
| **1111** | tax auditor |
| **1228** | tax auditor - government services |
| **1228** | tax auditors team leader |
| **1431** | tax clerk |
| **1228** | tax collection officer |
| **1228** | tax collector |
| **1111** | tax consultant |
| **4111** | Tax Court judge |
| **4162** | tax economist |
| **1228** | tax enforcement officer |
| **1111** | tax evaluator |
| **1111** | tax examiner |
| **1111** | tax expert |
| **1228** | tax interpretation officer |
| **1228** | tax investigator |
| **4211** | tax law clerk |
| **4112** | tax lawyer |
| **1242** | tax legal assistant |
| **0412** | tax office chief |
| **1228** | tax officer |
| **4211** | tax paralegal |
| **0412** | tax policy chief |
| **0412** | tax policy research manager - government services |
| **1228** | tax recovery officer |
| **1431** | tax return preparer |
| **1111** | tax specialist |
| **1228** | taxation investigator |
| **0412** | taxation manager |
| **1228** | taxation officer |
| **0412** | taxation programs director |
| **1111** | taxation rulings officer |
| **1241** | taxation service secretary |
| **7305** | taxi and chauffeurs supervisor |
| **1525** | taxi dispatcher |
| **7513** | taxi driver |
| **7305** | taxi driver and private chauffeur supervisor |
| **4423** | taxi inspector |
| **7513** | taxi owner-operator |
| **7513** | taxicab driver |
| **5212** | taxidermist |
| **5212** | taxidermy technician |
| **7445** | taximeter repairer |
| **6722** | T-bar attendant |
| **6722** | T-bar operator |
| **9617** | tea blender |
| **9213** | tea blending plant foreman/woman |
| **6564** | tea leaf reader |
| **0631** | tea room manager |
| **4021** | teacher - business college |
| **4021** | teacher - commercial college |
| **4021** | teacher - institute of technology |
| **4032** | teacher - junior kindergarten |
| **4021** | teacher - seminary |
| **4011** | teacher - teacher's college |
| **4215** | teacher for persons with autism |
| **4215** | teacher for persons with intellectual disabilities |
| **4215** | teacher of braille |
| **4215** | teacher of persons who are blind |

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| **4215** | teacher of persons who are deaf |
| **4215** | teacher of persons who are hard of hearing |
| **4215** | teacher of persons who are hearing impaired |
| **4215** | teacher of persons with a mobility impairment |
| **4215** | teacher of persons with a visual impairment |
| **4215** | teacher of persons with developmental disabilities |
| **4032** | teacher-librarian - elementary school |
| **4413** | teacher's aide |
| **4413** | teacher's assistant |
| **0423** | teachers' association director general |
| **4413** | teacher's helper |
| **4012** | teaching assistant - post-secondary |
| **4012** | teaching assistant - university |
| **4166** | teaching consultant |
| **4412** | teaching homemaker |
| **3125** | teaching orthoptist |
| **4413** | teaching staff assistant - primary and secondary school |
| **1122** | team training specialist |
| **4031** | technical and vocational teacher - secondary school |
| **2172** | technical architect - database |
| **2147** | technical architect - hardware |
| **5227** | technical assistant - audiovisual |
| **3212** | technical assistant - medical laboratory |
| **1221** | technical assistant - office support |
| **3212** | technical assistant - pathology |
| **6722** | technical assistant - sports and leisure |
| **1454** | technical assistant - statistics |
| **6221** | technical business equipment salesperson - wholesale |
| **5131** | technical director - broadcasting |
| **5131** | technical director - motion pictures, broadcasting and performing arts |
| **5122** | technical editor |
| **2282** | technical help desk agent |
| **0422** | technical high school principal |
| **2253** | technical illustrator - drafting |
| **5211** | technical indexer - library |
| **1253** | technical indexer - records and file management |
| **6221** | technical office equipment sales representative |
| **5212** | technical officer - museum |
| **5131** | technical producer |
| **5131** | technical producer - motion pictures, broadcasting and performing arts |
| **1411** | technical records clerk |
| **1254** | technical research assistant (except post-secondary) |
| **6221** | technical sales consultant |
| **6221** | technical sales executive |
| **6221** | technical sales representative |
| **6221** | technical sales representative - wholesale |
| **6221** | technical sales specialist |
| **6221** | technical sales specialist - chemicals |
| **6221** | technical sales specialist - exports |
| **6221** | technical sales specialist - imports |
| **6221** | technical sales specialist - metals |
| **6221** | technical sales supervisor |
| **6221** | technical salesperson - telecommunications |
| **6221** | technical salesperson - wholesale |
| **6221** | technical salesperson supervisor |
| **0421** | technical school director |
| **0421** | technical school manager |
| **1241** | technical secretary |
| **2242** | technical service representative - household and business equipment |
| **6221** | technical service sales consultant |
| **1451** | technical services clerk - library |
| **0131** | technical services co-ordinator - telecommunications |
| **2133** | technical services electrical engineer |
| **0511** | technical services head librarian |
| **5111** | technical services librarian |
| **0131** | technical services manager |
| **1254** | technical services officer - statistics |
| **4021** | technical subjects instructor - vocational institute |
| **2282** | technical support analyst - systems |
| **6221** | technical support specialist - wholesale trade |
| **2282** | technical support supervisor |
| **5125** | technical translator |
| **5121** | technical writer |
| **5121** | technical writer - aeronautics |
| **5121** | technical writer - chemical processing |
| **5121** | technical writer - electronics equipment |
| **5121** | technical writer - pharmaceutical industry |
| **2211** | technician - pharmaceutical production |
| **2244** | technician, aircraft instruments |
| **4021** | technological institute instructor |
| **4021** | technological institute teacher |
| **4021** | technological subjects instructor - vocational institute |
| **2211** | technologist, quality control of chemical products |
| **4021** | technology teacher - college level |
| **4161** | technology transfer officer |
| **4167** | teen club programs co-ordinator |
| **5226** | telecasting technician |
| **5227** | telecine operator |
| **7202** | telecommunication cable installation foreman/woman |
| **7245** | telecommunication cable installer |
| **7245** | telecommunication cable repairer |
| **7246** | telecommunication equipment tester and regulator |
| **7202** | telecommunication installation and repair worker foreman/woman |
| **7245** | telecommunication line construction technician |

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| 7202 | telecommunication line installation, repair and testing foreman/woman |
| 7202 | telecommunication line installation, repair and testing supervisor |
| 7202 | telecommunication line installers foreman/woman |
| 7202 | telecommunication line installers, repairers and testers foreman/woman |
| 7202 | telecommunication line maintenance foreman/woman |
| 7202 | telecommunication line maintenance supervisor |
| 7202 | telecommunication line repair foreman/woman |
| 7202 | telecommunication line repairers foreman/woman |
| 7202 | telecommunication line service supervisor |
| 7245 | telecommunication line technician |
| 7246 | telecommunication line tester |
| 7202 | telecommunication service foreman/woman |
| 7202 | telecommunication system installers and repairers foreman/woman |
| 7245 | telecommunications cable splicer |
| 7202 | telecommunications contractor |
| 0131 | telecommunications department manager |
| 5122 | telecommunications editor |
| 2147 | telecommunications engineer |
| 0211 | telecommunications engineering service manager |
| 7246 | telecommunications equipment electrician |
| 7246 | telecommunications equipment inspector |
| 7246 | telecommunications equipment installer |
| 7246 | telecommunications equipment technician |
| 0131 | telecommunications facilities manager |
| 0013 | telecommunications general manager |
| 2147 | telecommunications hardware engineer |
| 2147 | telecommunications hardware specialist |
| 0131 | telecommunications installation manager |
| 7245 | telecommunications line installer |
| 7245 | telecommunications lineman/woman |
| 0131 | telecommunications manager |
| 1525 | telecommunications operator |
| 6221 | telecommunications sales representative |
| 6221 | telecommunications salesperson |
| 7246 | telecommunications service tester |
| 0131 | telecommunications services manager |
| 2173 | telecommunications software engineer |
| 2173 | telecommunications software specialist |
| 2147 | telecommunications specialist - computer systems |
| 7202 | telecommunications supervisor |
| 2147 | telecommunications systems specialist |
| 7246 | telecommunications technician |
| 7245 | telecontrol technologist |
| 3012 | telehealth registered nurse |
| 6623 | telemarketer |
| 6211 | telemarketer supervisor |
| 6211 | telemarketing services supervisor |
| 6211 | telemarketing supervisor |
| 3012 | tele-nurse |
| 6564 | telepath |
| 1312 | telephone adjuster - insurance |
| 6564 | telephone agent - personal services |
| 7246 | telephone and teleprinter installer-repairer |
| 1414 | telephone answering service operator |
| 9523 | telephone assembler |
| 7245 | telephone cable splicer |
| 7612 | telephone cable splicer helper |
| 7246 | telephone central office distribution frame maintainer |
| 7246 | telephone central office repairer - telecommunications |
| 1414 | telephone clerk |
| 7246 | telephone communication electrician |
| 7246 | telephone communication technician |
| 0131 | telephone company district manager |
| 7514 | telephone directory deliverer - courier service |
| 6552 | telephone enquiries clerk |
| 7246 | telephone equipment installer and repairer |
| 7202 | telephone equipment installers foreman/woman |
| 6411 | telephone equipment sales representative - wholesale (non-technical) |
| 6421 | telephone equipment salesperson - retail |
| 7246 | telephone equipment tester |
| 7246 | telephone exchange distribution frame maintainer |
| 7246 | telephone exchange repairer - telecommunications |
| 7246 | telephone exchange tester |
| 7246 | telephone facilities evaluator |
| 7202 | telephone installation foreman/woman |
| 7202 | telephone installation supervisor |
| 7246 | telephone installer |
| 7245 | telephone line and cableman/woman |
| 7246 | telephone line and station installer |
| 7245 | telephone line technician |
| 1414 | telephone operator |
| 1211 | telephone operators supervisor |
| 7246 | telephone relay tester |
| 7246 | telephone repairer |
| 6623 | telephone sales agent |
| 6623 | telephone sales clerk |
| 6211 | telephone sales clerk supervisor |
| 6623 | telephone salesperson |
| 1414 | telephone service analyst |
| 1414 | telephone service assistant |
| 1211 | telephone service supervisor |
| 7246 | telephone servicer |
| 7246 | telephone shop repairer |
| 6623 | telephone solicitor |
| 7246 | telephone station installer |
| 7246 | telephone station repairer |

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| 1454 | telephone survey clerk |
| 7246 | telephone switchboard installer and repairer |
| 7246 | telephone switchman/woman |
| 1211 | telephone system night supervisor |
| 7246 | telephone system relay adjuster |
| 1211 | telephone system supervisor |
| 7246 | telephone technician |
| 7246 | telephone technician - telecommunications |
| 7246 | telephone tester |
| 7246 | telephone toll central office tester |
| 7246 | telephone traffic inspector |
| 5121 | teleplay writer - screenwriter |
| 7246 | teleprinter installer |
| 7246 | teleprinter installer - telecommunications |
| 7246 | teleprinter repairer |
| 2174 | teleprocessing software programmer |
| 5227 | teleprompt operator |
| 1414 | telereceptionist |
| 7246 | teletype installer - telecommunications |
| 7246 | teletype repairer - telecommunications |
| 7246 | teletypewriter (TTY) installer |
| 7246 | teletypewriter (TTY) installer - telecommunications |
| 7246 | teletypewriter (TTY) repairer |
| 6411 | television advertising time sales representative |
| 6411 | television advertising time salesperson |
| 0621 | television and stereo equipment store manager |
| 7441 | television antenna installer |
| 9523 | television assembler |
| 9523 | television assembly chief inspector |
| 5224 | television broadcasting equipment operator supervisor |
| 6421 | television cable service salesperson |
| 7247 | television cable servicer |
| 5222 | television camera operator |
| 2242 | television camera repairer |
| 5131 | television director |
| 5131 | television director-producer |
| 4154 | television evangelist |
| 5231 | television host/hostess |
| 2242 | television installation and repair technician |
| 5132 | television musical director |
| 5123 | television news anchorperson |
| 5222 | television news camera operator |
| 5231 | television newscaster |
| 9523 | television picture tube laminator |
| 9523 | television picture tube tester - electronic equipment manufacturing |
| 5131 | television producer |
| 7247 | television receive only (TVRO) technician |
| 9523 | television receiver inspector and tester - electronic equipment manufacturing |
| 2242 | television repair supervisor |
| 2242 | television repairer |
| 5123 | television researcher |
| 6421 | television salesperson - retail |
| 2242 | television servicer |
| 0512 | television station manager |
| 2242 | television studio equipment repairer |
| 5224 | television switcher |
| 2133 | television systems engineer |
| 1225 | television time buyer |
| 9523 | television tube assembler |
| 5121 | television writer |
| 6551 | teller - financial services |
| 6551 | teller trainee |
| 6314 | tellers supervisor |
| 9411 | temper mill roller - primary metal processing |
| 9613 | temperature regulator |
| 9524 | temperature-actuated controls tester |
| 9536 | temperer - plating and metal spraying |
| 9461 | tempering bin operator - food and beverage processing |
| 9211 | tempering foreman/woman - primary metal processing |
| 9434 | tempering plant tender |
| 9472 | template engraver |
| 7384 | template maker |
| 7384 | template maker - aeronautics |
| 7384 | template maker - shipbuilding |
| 7232 | template maker - tool and die |
| 9435 | tender, diaper-folding machine - paper converting |
| 9435 | tender, envelope flap-button machine - paper converting |
| 9537 | tender, fishing rod guide winder |
| 9537 | tender, foiling machine - explosives manufacturing |
| 9537 | tender, label-cutting machine - garment and fabric products manufacturing |
| 9422 | tender, plastic coagulating tank |
| 9421 | tender, recausticizer |
| 9435 | tender, roll-cutting machine - paper converting |
| 9465 | tenderometer tender - food and beverage processing |
| 9537 | tennis ball maker operator |
| 9537 | tennis ball maker tender |
| 5252 | tennis coach |
| 6722 | tennis court attendant |
| 0714 | tennis court manager |
| 5254 | tennis instructor - recreation |
| 5254 | tennis instructor - sports |
| 9537 | tennis net maker, hand |
| 5251 | tennis player |
| 9437 | tenoner operator - woodworking |
| 5133 | tenor |
| 2262 | tensile strength inspector |
| 9441 | tension drying machine tender - textile manufacturing |
| 9523 | tension meter assembler - electronic equipment manufacturing |

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| 9537 | tent finisher |
| 9418 | tent frame machine operator |
| 9537 | tent maker |
| 9441 | tenter machine tender |
| 9441 | tenter machine tender - textile manufacturing |
| 9441 | tenterframe tender |
| 5244 | tepee maker |
| 2272 | terminal air traffic controller |
| 7246 | terminal and repeater tester |
| 7246 | terminal and repeater tester - telecommunications |
| 1423 | terminal operator |
| 7305 | terminal supervisor - motor transport |
| 5125 | terminologist |
| 5125 | terminology advisor |
| 7281 | terra cotta mason |
| 7283 | terrazzo finisher |
| 7611 | terrazzo finisher helper |
| 7205 | terrazzo finishing contractor |
| 7283 | terrazzo floor layer |
| 7283 | terrazzo layer |
| 7611 | terrazzo layer helper |
| 7611 | terrazzo machine grinder |
| 7283 | terrazzo mason |
| 7283 | terrazzo mechanic |
| 7611 | terrazzo mechanic helper |
| 7283 | terrazzo polisher |
| 7611 | terrazzo polisher helper |
| 7205 | terrazzo polisher-contractor |
| 7205 | terrazzo polishing contractor |
| 7283 | terrazzo setter |
| 7205 | terrazzo setters foreman/woman |
| 7283 | terrazzo worker |
| 7283 | terrazzo, tile and marble setter |
| 0012 | territorial commissioner |
| 4168 | territorial council officer |
| 4162 | territorial resources economist |
| 0601 | territory manager - sales |
| 1221 | test administrator |
| 9523 | test and trim operator - electronic equipment manufacturing |
| 9465 | test baker - food and beverage processing |
| 2283 | test coordination analyst |
| 7246 | test desk operator - telecommunications |
| 9522 | test driver - automobile assembly |
| 2241 | test equipment repairer - oil exploration |
| 2271 | test pilot |
| 9222 | test supervisor - electronic equipment manufacturing |
| 9222 | test supervisor - electronics manufacturing |
| 2241 | test technician |
| 9415 | tester and inspector - primary metal and mineral products processing |
| 9524 | tester, electrical equipment manufacturing |
| 9415 | tester, glass containers |
| 9213 | testing and grading foreman/woman - food, beverage and tobacco processing |
| 1221 | testing co-ordinator |
| 9222 | testing foreman/woman - electronic equipment manufacturing |
| 9523 | testing machine operator - electronic equipment manufacturing |
| 1221 | testing supervisor |
| 9213 | testing, grading and sampling foreman/woman - food and beverage processing |
| 1452 | tests clerk |
| 6411 | textbook sales representative |
| 4164 | textile and clothing consultant - home economics |
| 2112 | textile chemist |
| 2211 | textile colour technologist |
| 9441 | textile colourist |
| 5112 | textile conservator |
| 5243 | textile designer |
| 2211 | textile dye technician |
| 2211 | textile dyeing technician |
| 9441 | textile dyer |
| 2148 | textile engineer |
| 7311 | textile fixer |
| 9441 | textile fleecer - textile manufacturing |
| 9447 | textile grader |
| 5245 | textile identification mark remover |
| 9447 | textile inspector |
| 9616 | textile machine cleaner |
| 9616 | textile machine feeder |
| 7311 | textile machine mechanic |
| 7301 | textile machine mechanics foreman/woman |
| 7301 | textile machine mechanics supervisor |
| 9616 | textile machine offbearer |
| 7311 | textile machine overhauler |
| 7301 | textile machinery assembly foreman/woman |
| 7316 | textile machinery fitter |
| 7311 | textile machinery fixer |
| 7311 | textile machinery mechanic |
| 7311 | textile machinery repairer |
| 6221 | textile machinery salesperson |
| 5245 | textile mark remover |
| 5245 | textile marker-down |
| 0911 | textile mill manager |
| 9441 | textile napper - textile manufacturing |
| 9441 | textile printer |
| 9217 | textile processing foreman/woman |
| 9217 | textile processing supervisor |
| 9441 | textile product bleacher |
| 9616 | textile product labourer |
| 9447 | textile product sampler |
| 9447 | textile products inspector |
| 9446 | textile products mender |
| 5245 | textile products patternmaker |
| 9447 | textile sampler |
| 9447 | textile shader |
| 9441 | textile spinner |
| 0911 | textile spinning-mill manager |

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| 0911 | textile spinning-plant manager |
| 2233 | textile technician |
| 2233 | textile technologist |
| 9447 | textile tester |
| 9421 | textile treatment solution mixer |
| 9441 | textile washer |
| 9442 | textile weaver |
| 9441 | textile wringer |
| 9537 | textile-bags-turner operator |
| 9441 | textile-dyeing and finishing machine operator |
| 7311 | textile-printing machine roller repairer - garment manufacturing |
| 9441 | textile-twisting-frame operator |
| 9441 | texturing machine tender - textile manufacturing |
| 3236 | Thai massage therapist |
| 9411 | thallium recoverer |
| 6742 | theatre attendant |
| 6316 | theatre attendant supervisor |
| 6611 | theatre cashier |
| 0512 | theatre company director |
| 0512 | theatre company manager |
| 5123 | theatre critic |
| 5243 | theatre designer |
| 0512 | theatre director |
| 5227 | theatre high rigger |
| 4169 | theatre historian |
| 5226 | theatre technician |
| 6742 | theatre usher |
| 1123 | theatrical agent |
| 1123 | theatrical business agent |
| 6541 | theft prevention officer |
| 4011 | theology department chairman/woman - university |
| 4011 | theology department chairperson - university |
| 4011 | theology department head - university |
| 2112 | theoretical chemist |
| 2111 | theoretical nuclear physicist |
| 6322 | therapeutic diet cook |
| 3132 | therapeutic dietitian |
| 3132 | therapeutic nutritionist |
| 3215 | therapeutic radiological technician |
| 3144 | therapeutic recreationist |
| 0311 | therapeutic services administrator |
| 0311 | therapeutic services director |
| 0311 | therapeutic services director - psychiatric hospital |
| 3414 | therapist assistant - medical |
| 3414 | therapy aide - medical |
| 3414 | therapy assistant - medical |
| 9232 | thermal acid equipment operator |
| 2132 | thermal design engineer |
| 2111 | thermal physicist |
| 9241 | thermal plant operator |
| 2132 | thermal power engineer |
| 2232 | thermal station technician |
| 7237 | thermite welder |
| 9214 | thermoforming foreman/woman - plastic manufacturing |
| 9422 | thermoforming operator |
| 9214 | thermoforming supervisor - plastic products manufacturing |
| 2261 | thermographer-tester |
| 7381 | thermographic printer |
| 6562 | thermology and electrolysis technician |
| 9432 | thermomechanical pulp assistant operator |
| 9432 | thermomechanical pulp assistant operator - pulp and paper |
| 9432 | thermomechanical pulp operator |
| 9537 | thermometric systems capillary tube charger |
| 9537 | Thermos bottle assembler |
| 9536 | thermospray operator |
| 9537 | thermostat and pressure switch calibrator |
| 9524 | thermostat assembler - electrical equipment manufacturing |
| 9227 | thermostat assembly foreman/woman |
| 9524 | thermostat calibrator |
| 9619 | thermostat capillary sealer |
| 9524 | thermostat inspector |
| 7445 | thermostat repairer |
| 9411 | thickener equipment tender - primary metal processing |
| 8422 | thinning saw operator |
| 8422 | thinning saw operator - forestry |
| 6322 | third cook |
| 2274 | third engineer - water transport |
| 9433 | third hand - pulp and paper |
| 4168 | third secretary - foreign service |
| 9241 | third-class power engineer |
| 9241 | third-class stationary engineer |
| 3111 | thoracic surgeon |
| 9614 | thrasher feeder |
| 9417 | thread cutter - metal machining |
| 9441 | thread doubler |
| 9417 | thread grinder set-up operator |
| 9447 | thread inspector - textiles |
| 9619 | thread laster - shoe manufacturing |
| 9441 | thread spinner |
| 9441 | thread spooler |
| 9619 | thread trimmer - garment manufacturing |
| 9441 | thread winder |
| 9417 | threader - metal machining |
| 9416 | threader - metal products manufacturing |
| 9442 | threader - textiles |
| 9417 | thread-grinder operator |
| 9417 | threading machine operator |
| 9417 | thread-milling machine set-up operator |
| 9213 | threshing department foreman/woman - tobacco processing |
| 8431 | threshing machine operator |
| 5232 | thrill performer |
| 3111 | throat specialist |
| 9523 | through-hole assembler |

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| **9523** | through-hole assembler - electronic equipment manufacturing |
| **6524** | ticket agent - bus line |
| **6524** | ticket agent - cruise line |
| **6524** | ticket agent - transit station |
| **6524** | ticket agent (except airline) |
| **6524** | ticket and customer service clerk (except airline) |
| **6523** | ticket and information agent - airline |
| **6524** | ticket and information clerk (except airline) |
| **9617** | ticket checker - tobacco processing |
| **6524** | ticket clerk - railway |
| **6524** | ticket clerk (except airline) |
| **6316** | ticket clerk supervisor |
| **1411** | ticket preparer - manufacturing |
| **6611** | ticket seller - cashier |
| **6316** | ticket seller supervisor |
| **6742** | ticket taker |
| **6742** | ticket taker and usher |
| **6316** | ticket taker supervisor |
| **9436** | tie and timber inspector |
| **7531** | tie axe unit operator - railway |
| **7531** | tie crane operator - railway |
| **9619** | tie maker |
| **7531** | tie plate jack operator - railway |
| **7531** | tie saw operator - railway |
| **7531** | tie shear operator - railway |
| **7531** | tie tamper operator - railway |
| **7531** | tie-bed-scarifier operator - railway |
| **7531** | tie-cutter operator - railway |
| **7531** | tie-cutting machine operator - railway |
| **5244** | tie-dye artisan |
| **7531** | tie-end-remover operator - railway |
| **7531** | tie-injector operator - railway |
| **7531** | tie-placer operator - railway |
| **7531** | tie-plate-placer operator - railway |
| **7452** | tier lift truck operator |
| **7237** | TIG (tungsten inert gas) welder |
| **7205** | tile and marble contractor |
| **9414** | tile burner - clay products |
| **9619** | tile cutter |
| **5243** | tile designer |
| **7283** | tile fitter |
| **7283** | tile floor layer |
| **7283** | tile installer |
| **9414** | tile kilnman/woman - clay products |
| **7283** | tile layer |
| **7611** | tile layer helper |
| **9414** | tile maker - clay products |
| **7283** | tile mason |
| **7283** | tile mechanic |
| **7291** | tile roofer |
| **7611** | tile setter helper |
| **7205** | tile, terrazzo and marble setting contractor |
| **7283** | tilesetter |
| **7205** | tilesetters foreman/woman |
| **7283** | tilesetters lead hand |
| **7205** | tilesetters supervisor |
| **7205** | tilesetting contractor |
| **7205** | tilesetting supervisor |
| **9431** | tilt-hoist operator - sawmill |
| **9411** | tilting table tender - metal processing |
| **8614** | timber and steel prop salvager |
| **8614** | timber and steel prop setter helper |
| **6222** | timber buyer |
| **2223** | timber cruiser |
| **9431** | timber cut-off sawyer - sawmill |
| **2223** | timber marker |
| **2223** | timber rider |
| **2223** | timber scaler |
| **2223** | timber technician |
| **9434** | timber treating tank operator |
| **8614** | timbering and steel prop setting helper |
| **8411** | timberman/woman - mines |
| **8411** | timberman/woman - underground mining |
| **8614** | timberman/woman helper - underground mining |
| **9614** | timber-treating tank helper |
| **7384** | time lock expert |
| **2233** | time study analyst |
| **1122** | time study analyst - services to management firms |
| **2233** | time study technologist |
| **1432** | timekeeper - payroll |
| **2141** | time-study engineer |
| **9536** | tin can dipping enameller |
| **9418** | tin can inspector |
| **9415** | tin plate inspector and grader |
| **9536** | tin plater |
| **9536** | tinned sheet coating machine operator |
| **9537** | tinsel maker operator |
| **7233** | tinsmith |
| **7233** | tinsmith - sheet metal work |
| **7611** | tinsmith helper - construction |
| **7233** | tinsmith roofer |
| **9413** | tinted glassware maker |
| **9421** | tinter - chemical processing |
| **9418** | tinware beader |
| **9536** | tinware dipper and enameller |
| **9536** | tinware dipping enameller |
| **7452** | tipman/woman - surface coal mining |
| **9213** | tipping department foreman/woman - tobacco processing |
| **9461** | tipping machine tender - tobacco processing |
| **9423** | tire assembler |
| **9423** | tire bagger |
| **9615** | tire balance checker - rubber products manufacturing |
| **9615** | tire band wrapper - rubber products manufacturing |
| **9615** | tire bead picker - rubber products manufacturing |
| **9423** | tire breaker operator |
| **9423** | tire buffer |

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| **9423** | tire builder |
| **9214** | tire building foreman/woman |
| **9214** | tire building supervisor |
| **7535** | tire changer - automotive service |
| **9423** | tire classifier |
| **9615** | tire cleaner - rubber products manufacturing |
| **9615** | tire cleaner and painter - rubber products manufacturing |
| **9423** | tire coverer |
| **9423** | tire curer |
| **0621** | tire dealer |
| **9423** | tire finisher |
| **9214** | tire finishing foreman/woman |
| **9214** | tire finishing supervisor |
| **9214** | tire inspection foreman/woman |
| **9214** | tire inspection supervisor |
| **9423** | tire inspector |
| **9423** | tire maker |
| **9615** | tire measurer - rubber products manufacturing |
| **7232** | tire mould repairer |
| **0911** | tire plant manager |
| **9423** | tire rebuilder |
| **9423** | tire recapper |
| **7535** | tire repairer |
| **7535** | tire repairer - automotive service |
| **9423** | tire repairer-vulcanizer |
| **9214** | tire retread foreman/woman |
| **9423** | tire retreader |
| **9423** | tire retreading inspector |
| **9214** | tire retreading supervisor |
| **6421** | tire salesperson - retail |
| **9214** | tire stock preparation foreman/woman |
| **9214** | tire stock preparation supervisor |
| **9423** | tire touch-up and buff worker |
| **9423** | tire tread moulder |
| **9423** | tire trimmer, hand |
| **9214** | tire tube building supervisor |
| **9615** | tire tube checker - rubber products manufacturing |
| **9615** | tire tube inserter - rubber products manufacturing |
| **9615** | tire tube repairer - rubber products manufacturing |
| **9423** | tire valve worker |
| **9423** | tire vulcanizer |
| **9423** | tire-bagging machine tender |
| **9423** | tire-retreading machine tender |
| **3211** | tissue technologist - medical laboratory |
| **2211** | titanium pigment test analyst |
| **4211** | title and lease clerk |
| **5241** | title artist |
| **4211** | title examiner |
| **4112** | title lawyer |
| **4211** | title searcher |
| **9524** | toaster assembler |
| **9617** | tobacco baler |
| **9461** | tobacco blender |
| **9461** | tobacco blending line attendant |
| **6222** | tobacco buyer |
| **9461** | tobacco casing fluid blender |
| **9461** | tobacco casing fluid cooker - tobacco processing |
| **9461** | tobacco conditioner tender |
| **8431** | tobacco curer |
| **9213** | tobacco curing room foreman/woman |
| **8611** | tobacco cutter - tobacco harvesting |
| **9461** | tobacco cutter - tobacco processing |
| **9461** | tobacco dryer - tobacco processing |
| **8252** | tobacco farm foreman/woman |
| **8431** | tobacco farm worker |
| **0821** | tobacco farmer |
| **8252** | tobacco farming workers foreman/woman |
| **9461** | tobacco flavourer |
| **9465** | tobacco grader |
| **8431** | tobacco harvesting machine operator |
| **9617** | tobacco hogshead liner |
| **9461** | tobacco leaf blender |
| **9461** | tobacco leaf cutter |
| **9465** | tobacco leaf grader |
| **9461** | tobacco leaf grinder |
| **9461** | tobacco leaf twister |
| **9461** | tobacco packaging machine tender |
| **9617** | tobacco packer |
| **8611** | tobacco picker |
| **8431** | tobacco primer |
| **9213** | tobacco processing foreman/woman |
| **9617** | tobacco processing labourer |
| **9213** | tobacco processing supervisor |
| **6421** | tobacco product clerk |
| **6411** | tobacco product sales representative - wholesale |
| **9461** | tobacco roller |
| **9465** | tobacco sample puller |
| **6421** | tobacco shop clerk |
| **9461** | tobacco shredder |
| **8611** | tobacco stripper - tobacco harvesting |
| **9461** | tobacco stripper - tobacco processing |
| **0714** | tobacco warehouse manager |
| **9617** | tobacco weigher |
| **9461** | tobacco-blending machine operator |
| **9461** | tobacco-cutting machine tender |
| **9461** | tobacco-dressing machine operator - tobacco processing |
| **9617** | tobacco-packing machine tender |
| **7311** | tobacco-processing machine mechanic |
| **9461** | tobacco-processing machine operator |
| **9213** | tobacco-processing machine operator supervisor |
| **9213** | tobacco-processing workers foreman/woman |
| **9213** | tobacco-stemming room foreman/woman |
| **9619** | toe and heel sprayer - shoe manufacturing |
| **9524** | toggle switch assembler - electrical equipment manufacturing |

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| **9421** | toiletries moulder and compressor |
| **5244** | tole painter |
| **6742** | toll booth attendant |
| **6316** | toll bridge attendants supervisor |
| **6742** | toll collector |
| **7246** | toll communication electrician |
| **7246** | toll equipment man/woman - telecommunications |
| **7245** | toll line inspector - telecommunications |
| **7245** | toll line repairman/woman - telecommunications |
| **7245** | toll lineman/woman - telecommunications |
| **1414** | toll operator |
| **7246** | toll switchman/woman - telecommunications |
| **7246** | toll telephone exchange tester |
| **1212** | tollgate supervisor |
| **0821** | tomato grower |
| **9461** | tomato juice extractor |
| **8611** | tomato picker |
| **7611** | tombstone erector |
| **7611** | tombstone setter |
| **9537** | tool and cutlery assembly inspector |
| **2232** | tool and die designer |
| **7231** | tool and die inspector |
| **7201** | tool and die inspectors foreman/woman |
| **7201** | tool and die inspectors supervisor |
| **7232** | tool and die maker |
| **7232** | tool and die maker apprentice |
| **7201** | tool and die makers foreman/woman |
| **7201** | tool and die makers supervisor |
| **7201** | tool and die making supervisor |
| **4021** | tool and die making teacher - community college |
| **7232** | tool and die preparer |
| **7232** | tool and die repairer |
| **7237** | tool and die welder |
| **6421** | tool and equipment rental clerk |
| **7231** | tool and gauge inspector |
| **2253** | tool checker - drafting |
| **1522** | tool clerk |
| **1215** | tool clerks foreman/woman |
| **1215** | tool crib supervisor |
| **2253** | tool design draftsperson |
| **2232** | tool designer |
| **2132** | tool engineer |
| **9417** | tool filer, hand - metal machining |
| **7232** | tool fitter |
| **9417** | tool grinder - metal machining |
| **9417** | tool grinder set-up operator |
| **1215** | tool keepers supervisor |
| **9417** | tool lapper - metal machining |
| **7232** | tool maintainer |
| **7232** | tool maintenance man/woman |
| **7311** | tool oiler and maintenance mechanic |
| **7311** | tool oiler and repairer |
| **0911** | tool production department manager |
| **2233** | tool programming technologist |
| **7232** | tool repairer |
| **7232** | tool repairman/woman |
| **1522** | tool room attendant |
| **1522** | tool room storeman/woman |
| **1522** | tool store clerk |
| **9417** | tool-dresser operator |
| **9526** | tooling and metalworking machine try-out tester |
| **7201** | tooling foreman/woman |
| **7231** | tooling inspector |
| **7201** | tooling inspectors foreman/woman |
| **7201** | tooling inspectors supervisor |
| **7201** | tooling supervisor |
| **7232** | toolmaker |
| **8222** | toolpusher |
| **8222** | toolpusher - offshore drilling rig |
| **8222** | toolpusher - oil and gas well |
| **7201** | toolroom foreman/woman |
| **7231** | toolroom inspector |
| **7231** | toolroom machinist |
| **7384** | toolsmith |
| **9537** | toothbrush maker operator |
| **9437** | toothpick lathe operator |
| **9437** | toothpick-chopping machine tender |
| **8411** | top cager - underground mining |
| **9441** | top dyer - textile manufacturing |
| **9442** | top knitter |
| **9527** | top-capping machine tender - electrical equipment manufacturing |
| **2271** | topographic survey pilot |
| **2254** | topographic survey technician |
| **2254** | topographic survey technologist |
| **6221** | topographical equipment salesperson |
| **9442** | topper - textiles |
| **7237** | torch brazer |
| **7237** | torch brazing machine setter |
| **7237** | torch welder |
| **7445** | torque wrench calibrator |
| **2242** | totalizator systems technician |
| **5244** | totem pole carver |
| **9619** | touch-up cleaner - furniture finishing and refinishing |
| **9534** | touch-up person - furniture finishing |
| **9534** | touch-up worker - furniture finishing |
| **7512** | tour bus operator |
| **6531** | tour director |
| **6531** | tour escort |
| **9215** | tour foreman/woman - pulp and paper |
| **6531** | tour guide |
| **6313** | tour guide supervisor |
| **6411** | tour operator - wholesale |
| **6411** | tour package sales representative - wholesale |
| **0421** | tourism and hotel school manager |
| **4163** | tourism consultant - government |
| **0412** | tourism development director - government services |

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| **0412** | tourism development manager - government services |
| **4163** | tourism development officer |
| **4163** | tourism development officer - government |
| **4163** | tourism industry consultant |
| **4163** | tourism industry specialist |
| **1123** | tourism information officer |
| **1123** | tourism information technician |
| **0412** | tourism policy director |
| **0412** | tourism promotion director - government services |
| **0412** | tourism research manager - government services |
| **4163** | tourism services co-ordinator - government |
| **4021** | tourism trainer |
| **6552** | tourist booth attendant |
| **6722** | tourist camp attendant |
| **6731** | tourist camp cleaner |
| **6531** | tourist guide |
| **0632** | tourist home operator |
| **6552** | tourist information clerk |
| **6521** | tourist information counsellor |
| **6552** | tourist information office attendant |
| **6552** | tourist information officer |
| **7452** | tow motor driver (except air transport) |
| **0731** | tow truck company manager |
| **1525** | tow truck dispatcher |
| **7511** | tow truck driver |
| **2272** | tower controller - air traffic |
| **7236** | tower crane erector |
| **7371** | tower crane operator |
| **7244** | tower line maintainer - electric power systems |
| **7244** | tower lineman/woman - electric power systems |
| **7531** | tower operator - railway transport |
| **9421** | tower operator - soap |
| **7451** | tower-loader operator - marine cargo handling |
| **7531** | towerman/woman - railway transport |
| **0012** | town clerk |
| **7514** | town messenger driver |
| **2153** | town planner |
| **0012** | township clerk |
| **2121** | toxicologist |
| **9537** | toy assembler |
| **9227** | toy assembly foreman/woman |
| **5243** | toy designer - arts and crafts |
| **2252** | toy designer - industrial design |
| **9537** | toy inspector |
| **9537** | toy maker |
| **9227** | toy manufacturing foreman/woman |
| **9227** | toy manufacturing supervisor |
| **0621** | toy store manager |
| **6421** | toy store salesperson |
| **9537** | toy-stuffing machine operator |
| **7245** | tracer - telecommunications |
| **9421** | tracer powder blender |
| **9537** | tracer-bullet-loading machine operator |
| **5245** | tracer-patternmaker |
| **9472** | tracer-transferrer |
| **5252** | track and field athletes coach |
| **5252** | track and field coach |
| **0513** | track and field director |
| **5254** | track and field instructor |
| **5253** | track and field judge |
| **5252** | track and field team coach |
| **5251** | track athlete |
| **7302** | track boss - railway |
| **8221** | track boss - underground mining |
| **7531** | track broom machine operator - railway |
| **7531** | track dresser - railway |
| **8411** | track equipment operator - underground mining |
| **7531** | track fitter - railway |
| **7302** | track foreman/woman - railway |
| **7622** | track greaser - railway |
| **5253** | track judge |
| **7531** | track layer - railway |
| **8221** | track layer boss - underground mining |
| **7531** | track maintenance worker - railway |
| **7531** | track repairman/woman - railway |
| **7622** | track sweeper - railway |
| **7531** | track tamper - railway |
| **7531** | track-liner operator - railway |
| **7521** | track-loader operator |
| **7531** | track-maintenance-machine operator - railway |
| **7531** | trackman/woman - railway yard |
| **8411** | trackman/woman - underground mining |
| **7531** | trackmobile operator - railway |
| **8411** | trackperson - underground mining |
| **7531** | track-surfacing machine operator - railway |
| **7531** | trackwalker - railway |
| **9423** | traction belt builder - rubber products manufacturing |
| **9526** | tractor assembler |
| **7371** | tractor crane operator |
| **7312** | tractor mechanic |
| **7521** | tractor operator - construction |
| **8431** | tractor operator - farm |
| **7521** | tractor-excavator operator |
| **9226** | tractor-trailer assembly foreman/woman |
| **9226** | tractor-trailer assembly supervisor |
| **7511** | tractor-trailer truck driver |
| **4162** | trade analyst |
| **0423** | trade association manager |
| **0012** | trade commissioner |
| **2234** | trade contractor estimator - construction |
| **0412** | trade development director |
| **0412** | trade development director - government services |
| **4162** | trade economist |
| **0601** | trade expansion manager |

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| **4021** | trade instructor - community college |
| **0412** | trade liaison director - government services |
| **4163** | trade promotion officer |
| **0421** | trade school director |
| **0014** | trade school general manager |
| **0421** | trade school manager |
| **1226** | trade show organizer |
| **1226** | trade show planner |
| **1242** | trademark administrative assistant |
| **4211** | trademark agent |
| **4112** | trademark lawyer |
| **1242** | trademark secretary |
| **7611** | trades helper - construction |
| **4031** | trades instructor - secondary school |
| **7272** | tradesman/woman cabinetmaker |
| **0121** | trading floor manager |
| **3232** | traditional Chinese medicine practitioner |
| **1215** | traffic and distribution supervisor |
| **0731** | traffic and transportation assistant manager |
| **1454** | traffic checker |
| **0131** | traffic chief - telecommunications |
| **1523** | traffic clerk |
| **1523** | traffic clerk - broadcasting |
| **1523** | traffic control clerk |
| **1215** | traffic control supervisor |
| **1454** | traffic counter |
| **2131** | traffic engineer |
| **0211** | traffic engineering service manager - telecommunications |
| **0431** | traffic inspector - police |
| **7305** | traffic inspector - public transit system |
| **7441** | traffic light installer |
| **7244** | traffic light repairer |
| **0131** | traffic manager - cable systems |
| **0131** | traffic manager - telephone system |
| **0731** | traffic manager - transport |
| **0731** | traffic manager - transportation |
| **0731** | traffic manager - water transport |
| **2131** | traffic operations engineer |
| **4311** | traffic patrol officer |
| **1431** | traffic rate clerk |
| **5231** | traffic reporter |
| **0411** | traffic safety administrator - government services |
| **5223** | traffic sign painter |
| **7441** | traffic signal installer |
| **0431** | traffic superintendent - police |
| **4423** | traffic supervisor - by-law enforcement |
| **7305** | traffic supervisor - motor transport |
| **2231** | traffic technician - civil engineering |
| **2231** | traffic technologist |
| **9526** | trailer assembler |
| **9226** | trailer assembly foreman/woman |
| **6722** | trailer campsite attendant |
| **9526** | trailer frame assembler |
| **7321** | trailer mechanic |
| **7321** | trailer mechanical systems repairer |
| **6722** | trailer park attendant |
| **6316** | trailer park supervisor |
| **7362** | train conductor |
| **2275** | train dispatcher |
| **2275** | train dispatchers supervisor |
| **7361** | train engineer |
| **2275** | train operator |
| **1526** | train scheduler |
| **6721** | train service attendant |
| **1312** | trainee adjuster - insurance |
| **4021** | trainee instructor |
| **1121** | training adviser |
| **1121** | training and development consultant |
| **0112** | training and development manager |
| **0112** | training chief |
| **1415** | training clerk |
| **4021** | training consultant - industry |
| **6421** | training course salesperson |
| **4312** | training firefighter |
| **0421** | training institute director |
| **4021** | training instructor - college level |
| **4021** | training officer - company |
| **1121** | training programs supervisor |
| **7531** | trainman/woman - railway yard |
| **8411** | trainman/woman - underground mining |
| **7304** | trainmaster |
| **8411** | trammerman/woman |
| **1251** | transcriber |
| **7445** | transcribing machine servicer |
| **1251** | transcriptionist |
| **9411** | transfer bed operator - primary metal processing |
| **1431** | transfer clerk |
| **6411** | transfer company agent |
| **0731** | transfer company manager |
| **9614** | transfer equipment tender - wood processing |
| **8411** | transfer hoist operator |
| **7361** | transfer hostler - railway |
| **9442** | transfer knitter |
| **9417** | transfer machine tender - metal machining |
| **9471** | transfer machine tender - printing |
| **9614** | transfer man/woman - wood processing |
| **9431** | transfer operator - sawmill |
| **9471** | transfer press operator |
| **7531** | transfer table operator - railway yard |
| **4211** | transfer-of-title clerk |
| **9472** | transferrer |
| **9525** | transformer accessories assembler |
| **9525** | transformer assembler |
| **9525** | transformer assembly clamper |
| **9525** | transformer assembly coil clamper |
| **9525** | transformer builder |
| **9527** | transformer coil impregnator |
| **9524** | transformer coil impregnator operator - electrical equipment manufacturing |
| **7333** | transformer coil repairer |
| **9525** | transformer coil winder |

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| 9525 | transformer core assembler |
| 9525 | transformer core lapper |
| 9525 | transformer core maker |
| 9525 | transformer core stacker |
| 9525 | transformer department lead hand |
| 9525 | transformer fitter |
| 9525 | transformer fitter-wirer |
| 9525 | transformer gas detector relay assembler |
| 9525 | transformer inspector |
| 9525 | transformer maker |
| 7301 | transformer repair shop foreman/woman |
| 7333 | transformer repairer |
| 7333 | transformer repairman/woman |
| 9524 | transformer static plate assembler |
| 9613 | transformer stockroom attendant |
| 9525 | transformer subassembler |
| 9525 | transformer tapgear assembler |
| 9525 | transformer tester |
| 9525 | transformer winder |
| 9523 | transistor assembler |
| 2254 | transit man/woman - surveying |
| 7305 | transit mobile inspector |
| 2254 | transit operator - surveying |
| 7512 | transit operator - transportation |
| 1526 | transit planner |
| 1526 | transit scheduler |
| 6524 | transit station ticket agent |
| 0016 | transit system general manager |
| 7305 | transit system inspector |
| 4212 | transition home worker - social services |
| 4212 | transition house worker - social services |
| 1122 | transition management consultant |
| 1452 | translation clerk |
| 5125 | translator |
| 5125 | translator adaptor |
| 5125 | translator-reviser |
| 5125 | transliterator |
| 9526 | transmission assembler |
| 9526 | transmission assembly inspector |
| 9526 | transmission assembly tester |
| 9522 | transmission installer |
| 7244 | transmission lineman/woman - electric power systems |
| 0912 | transmission lines manager |
| 7321 | transmission mechanic |
| 0912 | transmission operations director - utilities |
| 5224 | transmission operator |
| 5224 | transmission studio control operator |
| 7321 | transmission technician |
| 9522 | transmission tester - motor vehicle manufacturing |
| 7246 | transmission tester - telecommunications |
| 0131 | transmission traffic manager - telecommunications |
| 9226 | transmission-rebuilding shop foreman/woman |
| 5224 | transmitter operator |
| 5224 | transmitting operator |
| 9423 | Transmix operator - rubber products manufacturing |
| 8612 | transplanter - landscape maintenance |
| 0016 | transport and communications general manager |
| 4423 | transport compliance officer |
| 0731 | transport department manager |
| 7511 | transport driver |
| 4162 | transport economist |
| 1215 | transport logistician |
| 1215 | transport logistics technician |
| 7313 | transport refrigeration mechanic |
| 7313 | transport refrigeration technician |
| 7321 | transport truck mechanic |
| 7321 | transport truck trailer mechanic |
| 6524 | transportation agent (except airline) |
| 0731 | transportation and traffic manager |
| 1526 | transportation clerk |
| 1215 | transportation co-ordinator |
| 0731 | transportation director |
| 4423 | transportation enforcement officer |
| 2131 | transportation engineer |
| 0731 | transportation fleet manager |
| 1215 | transportation logistics co-ordinator |
| 0731 | transportation logistics manager |
| 0731 | transportation management director |
| 0731 | transportation manager |
| 2153 | transportation planner |
| 1215 | transportation planning co-ordinator |
| 0412 | transportation policy director - government services |
| 4161 | transportation program analyst |
| 0412 | transportation programs manager - government services |
| 2153 | transportation route planning analyst |
| 1526 | transportation route scheduler |
| 1215 | transportation route schedulers supervisor |
| 1526 | transportation routes scheduler |
| 4161 | transportation safety analyst |
| 1526 | transportation schedule clerk |
| 1526 | transportation schedule maker |
| 1526 | transportation schedules writer |
| 0731 | transportation superintendent |
| 6732 | transportation vehicle scrubber |
| 8262 | trap boss - fishing |
| 8262 | trap fisherman/woman |
| 5232 | trapeze artist |
| 8442 | trapper |
| 6532 | trapping guide |
| 0015 | travel agency chief executive officer (CEO) |
| 6521 | travel agent |
| 0731 | travel and relocation department manager |
| 6521 | travel centre counsellor |
| 6313 | travel clerk supervisor |
| 6521 | travel consultant |
| 6521 | travel counsellor |

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| **6531** | travel escort |
| **6531** | travel guide |
| **6521** | travel information agent |
| **6521** | travel specialist |
| **7441** | travel trailer installer-servicer |
| **9616** | traveller changer |
| **6421** | travelling salesperson - retail |
| **6411** | travelling salesperson - wholesale |
| **8261** | trawler captain |
| **8441** | trawlerman/woman |
| **6711** | tray carrier attendant - hospital |
| **9423** | tread cutter machine operator - rubber products manufacturing |
| **9423** | tread cutter, truck tires |
| **9423** | tread-cutting machine operator - rubber products manufacturing |
| **9437** | treadle saw operator - woodworking |
| **0111** | treasurer |
| **0111** | treasurer and controller - finances |
| **0011** | Treasury Board president |
| **1431** | treasury clerk |
| **0013** | treasury vice-president - banking institution |
| **9436** | treated pole tester - wood processing |
| **9613** | treater helper - chemical processing |
| **9215** | treating plant foreman/woman - wood processing |
| **9434** | treating worker - wood preserving |
| **7311** | treatment plant maintenance mechanic |
| **2225** | tree and shrub specialist |
| **8432** | tree grafter - nursery |
| **0822** | tree grower - nursery |
| **8241** | tree harvester operator |
| **0822** | tree nursery operator |
| **8241** | tree processor operator - logging |
| **8422** | tree pruner - forestry |
| **8612** | tree pruner - landscaping |
| **8255** | tree removal contractor |
| **8255** | tree service contractor |
| **8255** | tree service supervisor |
| **2225** | tree service technician |
| **8422** | tree spacer - forestry |
| **8612** | tree sprayer |
| **8612** | tree surgeon helper |
| **8612** | tree trimmer - landscaping |
| **8241** | treelength forwarder operator |
| **8241** | tree-length harvester operator |
| **7611** | trench digger |
| **7521** | trench-digging machine operator |
| **7521** | trenching machine operator |
| **3012** | triage nurse |
| **1227** | trial co-ordinator - courts |
| **4111** | trial court judge |
| **2132** | tribologist |
| **4168** | tribunal chairperson |
| **4168** | tribunal member |
| **4168** | tribunal officer |
| **4168** | tribunal officer - government services |
| **6562** | trichologist |
| **9522** | trim and hardware inspector - motor vehicle manufacturing |
| **9221** | trim and hardware supervisor - motor vehicle manufacturing |
| **9423** | trim lathe operator - rubber products manufacturing |
| **9418** | trim machine adjuster |
| **9431** | trim saw operator - sawmill |
| **9437** | trim saw operator - woodworking |
| **9431** | trim sawyer - sawmill |
| **9463** | trimmer - fish processing |
| **9534** | trimmer - furniture finishing |
| **9445** | trimmer - leather products manufacturing |
| **9462** | trimmer - meat packing plant |
| **9612** | trimmer - metal products manufacturing |
| **9614** | trimmer loader - wood processing |
| **9423** | trimmer operator - rubber products manufacturing |
| **9431** | trimmer operator - sawmill |
| **9437** | trimmer operator - woodworking |
| **9431** | trimmer tender - sawmill |
| **9423** | trimmer, rubber products |
| **9431** | trimmerman/woman |
| **9431** | trimmerman/woman - sawmill |
| **9437** | trimming and boring machine operator - woodworking |
| **9431** | trimming machine operator - sawmill |
| **9437** | trimming machine operator - woodworking |
| **9431** | trimming machine tender - sawmill |
| **9447** | trimming material inspector |
| **9416** | trip hammer operator - metal forging |
| **9461** | tripe cooker - food and beverage processing |
| **8262** | troller fisherman/woman |
| **7512** | trolley bus operator |
| **7512** | trolley coach driver |
| **7321** | trolley engine mechanic |
| **5133** | trombonist |
| **4313** | trooper |
| **9537** | trophy assembler |
| **5243** | trophy designer |
| **0821** | tropical fish breeder |
| **3111** | tropical medicine physician |
| **7202** | trouble foreman/woman - telecommunications |
| **7442** | troubleshooter - pipeline |
| **7202** | troubleshooter foreman/woman - telecommunications |
| **1525** | troubleshooting services dispatcher |
| **0823** | trout farmer |
| **7321** | truck and coach technician |
| **7321** | truck and trailer repairer |
| **6411** | truck and trailer sales representative - wholesale (non-technical) |
| **7321** | truck and transport mechanic |
| **7321** | truck and transport service technician |

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| **7321** | truck and transport vehicle mechanic apprentice |
| **7321** | truck and transport vehicle repairer |
| **9526** | truck assembler |
| **9226** | truck assembly foreman/woman |
| **9526** | truck assembly inspector |
| **9526** | truck body builder |
| **7371** | truck crane operator |
| **1525** | truck dispatcher |
| **7511** | truck driver |
| **7622** | truck driver helper |
| **4021** | truck driver trainer - community college |
| **7305** | truck drivers foreman/woman |
| **7305** | truck drivers supervisor |
| **7305** | truck driver-supervisor |
| **4216** | truck driving instructor |
| **7305** | truck fleet foreman/woman |
| **6421** | truck leasing representative |
| **7452** | truck load weigher |
| **7452** | truck loader |
| **7321** | truck mechanic |
| **7511** | truck mixer driver - construction |
| **7511** | truck operator |
| **7511** | truck owner operator |
| **6421** | truck rental clerk |
| **6421** | truck salesperson |
| **1526** | truck scheduler |
| **9423** | truck tire builder |
| **9526** | truck trailer assembler |
| **9226** | truck trailer assembly foreman/woman |
| **9226** | truck trailer assembly supervisor |
| **9526** | truck trailer builder |
| **9526** | truck trailer final inspector |
| **7321** | truck trailer mechanic |
| **7321** | truck trailer repairer apprentice |
| **7321** | truck trailer service technician |
| **0651** | truck wash manager |
| **6732** | truck washer |
| **7511** | trucker |
| **0016** | trucking company general manager |
| **7305** | trucking contractor |
| **7511** | truck-trailer driver |
| **7321** | truck-trailer repairer |
| **5133** | trumpeter |
| **9437** | trunk panel finisher - woodworking |
| **0122** | trust company branch manager |
| **0013** | trust company general manager |
| **0122** | trust company investment manager |
| **0122** | trust company manager |
| **0013** | trust company regional vice-president |
| **6551** | trust company teller |
| **1114** | trust officer |
| **1113** | trust services salesman/woman |
| **7246** | TTY (teletypewriter) installer |
| **7246** | TTY (teletypewriter) installer - telecommunications |
| **7246** | TTY (teletypewriter) repairer |
| **9617** | tub filler - food and beverage processing |
| **5133** | tuba player |
| **9523** | tube assembler - electronic equipment manufacturing |
| **9411** | tube drawer - primary metal processing |
| **9611** | tube drawer helper - primary metal processing |
| **9423** | tube finisher - rubber products manufacturing |
| **7235** | tube fitter - structural metal and platework |
| **9435** | tube machine operator - paper converting |
| **9611** | tube roller helper - primary metal processing |
| **9411** | tube rolling mill operator - primary metal processing |
| **9423** | tube skiver - rubber |
| **9423** | tube sorter - rubber reclaiming |
| **9411** | tube straightener operator - primary metal processing |
| **9523** | tube tester |
| **9423** | tube vulcanizer tender - rubber products manufacturing |
| **9416** | tube-bending machine operator - metal fabrication |
| **9537** | tube-cutting machine tender |
| **9423** | tuber operator - rubber products manufacturing |
| **9616** | tubing folder - textile processing |
| **8615** | tubing helper - oil field services |
| **9411** | tubing machine tender - primary metal processing |
| **9524** | tubular heating element maker |
| **9416** | tubular metal products fabricator |
| **9619** | tubulating machine feeder - glass products manufacturing |
| **9446** | tufted carpet mender |
| **9217** | tufted-carpet weaver supervisor |
| **9442** | tufting machine operator - textiles |
| **9442** | tufting machine operator, carpets |
| **9442** | tufting operator |
| **9217** | tufting supervisor - textiles |
| **2273** | tugboat captain |
| **7532** | tugboat deckhand |
| **1525** | tugboat dispatcher |
| **2274** | tugboat engineer |
| **2273** | tugboat master |
| **2273** | tugboat skipper |
| **6741** | tumble dryer tender - laundry and dry cleaning |
| **9423** | tumbler operator - rubber products manufacturing |
| **9617** | tumbler tender - food and beverage processing |
| **9612** | tumbler tender - metal products manufacturing |
| **9423** | tumbler tender - rubber products manufacturing |
| **9441** | tumbler tender - textile manufacturing |
| **9536** | tumbling barrel painter |

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|---|---|
| **9536** | tumbling barrel tender |
| **9612** | tumbling barrel tender - metal products manufacturing |
| **9612** | tumbling machine tender - metal products manufacturing |
| **1252** | tumour registrar |
| **7321** | tune-up mechanic - motor vehicle |
| **7321** | tune-up specialist - motor vehicle |
| **7237** | tungsten inert gas (TIG) welder |
| **2264** | tunnel construction inspector |
| **2131** | tunnel engineer |
| **9414** | tunnel kiln operator - clay products |
| **9414** | tunnel kilnman/woman - clay products |
| **7521** | tunnelling machine operator |
| **7611** | tunnelling machine operator helper - construction |
| **7301** | turbine assembly foreman/woman |
| **9526** | turbine assembly inspector and tester |
| **7231** | turbine blade machinist |
| **7316** | turbine fitter |
| **9241** | turbine operator - stationary engines |
| **7252** | turbine pipefitter |
| **0821** | turf farmer |
| **2225** | turfgrass management specialist |
| **8252** | turkey farm foreman/woman |
| **8252** | turkey farming workers foreman/woman |
| **0821** | turkey producer |
| **9619** | turner - garment manufacturing |
| **9437** | turner - woodworking |
| **9437** | turner, woodworking |
| **9437** | turning machine operator - woodworking |
| **9437** | turning sander tender - woodworking |
| **9461** | turnip waxer - food and beverage processing |
| **6742** | turnstile attendant |
| **7531** | turntable operator - railway yard |
| **5232** | turntablist |
| **9417** | turret lathe operator - metal machining |
| **9417** | turret lathe set-up operator |
| **9461** | turret machine tender - tobacco processing |
| **9416** | turret press operator |
| **9416** | turret press set-up operator |
| **9416** | turret punch press operator - metal fabrication |
| **4216** | tutor - elementary school subjects |
| **4012** | tutor - post-secondary teaching assistant |
| **4216** | tutor - secondary school subjects |
| **9523** | TV set inspector and tester - electronic equipment manufacturing |
| **7247** | TVRO (television receive only) technician |
| **6533** | twenty-one croupier |
| **9441** | twine dyer |
| **9441** | twine maker |
| **9441** | twine-cropping machine tender |
| **9441** | twine-shearing machine tender |
| **9616** | twisted end finder - textile processing |
| **9537** | twisted wire brush maker |
| **9441** | twister operator - textile manufacturing |
| **9441** | twister tender - textile manufacturing |
| **9217** | twisting foreman/woman - textiles |
| **9441** | twisting frame operator - textile manufacturing |
| **9537** | twisting machine tender |
| **9441** | twisting operator - textile manufacturing |
| **9619** | tying machine tender |
| **1423** | type compositor |
| **9523** | type-bar-and-segment assembler |
| **1423** | typecasting machine operator |
| **1423** | typesetter - typesetting |
| **7303** | typesetters foreman/woman - printing |
| **7303** | typesetters supervisor - printing |
| **1423** | typesetting machine operator |
| **1423** | typesetting machine tender |
| **7237** | type-soldering machine tender |
| **9523** | typewriter aligner |
| **9537** | typewriter assembly tester |
| **9523** | typewriter inspector, parts and assemblies |
| **9523** | typewriter parts salvager |
| **9537** | typewriter tester |
| **1411** | typist |
| **1423** | typographer |
| **1423** | typographer apprentice |
| **7303** | typographers supervisor |

## U

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|---|---|
| **9537** | ultrasonic cleaning machine tender |
| **6221** | ultrasonic equipment salesperson |
| **2261** | ultrasonic immersion tester |
| **2261** | ultrasonic technician - non-destructive testing |
| **2261** | ultrasonic tester |
| **2261** | ultrasonic testing technician |
| **3216** | ultrasonographer - medical |
| **3216** | ultrasonography technician |
| **3216** | ultrasonography technologist |
| **3216** | ultrasound supervisor |
| **3216** | ultrasound technician |
| **3216** | ultrasound technologist |
| **2261** | ultraviolet light testing technician |
| **9537** | umbrella inspector |
| **9537** | umbrella maker |
| **5253** | umpire |
| **9432** | unbleached pulp washer - pulp and paper |
| **9423** | uncured tire inspector |
| **9423** | uncured tire lubricator |
| **9423** | uncured tire repairer |
| **9536** | undercoater - motor vehicle manufacturing |
| **8231** | undercutter operator - underground mining |
| **9525** | undercutting machine operator - industrial electrical equipment |
| **7612** | underground cable helper |
| **7244** | underground cable splicer - electric power systems |

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| 7245 | underground cable splicer - telecommunications |
| 7612 | underground cable splicer helper |
| 2241 | underground distribution technologist - electrical power |
| 7202 | underground electrical conduit foreman/woman |
| 2133 | underground electrical distribution engineer |
| 8614 | underground helper - mining |
| 7611 | underground labourer - construction |
| 8614 | underground labourer - mining |
| 7244 | underground lineman/woman - electric power systems |
| 7442 | underground lines inspector - utilities |
| 8221 | underground mine foreman/woman |
| 8614 | underground mine labourer |
| 0811 | underground mine superintendent |
| 0811 | underground mining superintendent |
| 1522 | underground tool crib attendant |
| 0012 | undersecretary of state |
| 6346 | undertaker |
| 6346 | undertaker assistant |
| 7384 | underwater contractor |
| 7384 | underwater worker |
| 9446 | underwear sewer |
| 1313 | underwriter - insurance |
| 0121 | underwriting department manager |
| 1121 | union adviser |
| 0014 | union association president |
| 1121 | union organizer |
| 1121 | union representative |
| 3413 | unit aide - medical |
| 3413 | unit assistant - medical |
| 1411 | unit clerk |
| 1211 | unit clerks supervisor |
| 2122 | unit forester |
| 5111 | unit head librarian |
| 5226 | unit manager - motion pictures and broadcasting |
| 6311 | unit supervisor - food services |
| 3413 | unit support technician - medical |
| 9417 | universal grinder set-up operator |
| 1221 | university admissions officer |
| 4033 | university counsellor |
| 4011 | university department head |
| 4012 | university laboratory assistant |
| 4011 | university lecturer |
| 0714 | university maintenance manager |
| 0014 | university president |
| 4011 | university professor |
| 0421 | university registrar |
| 4012 | university research assistant |
| 0632 | university residence manager |
| 4012 | university teaching assistant |
| 9532 | upfitter - furniture manufacturing |
| 9232 | upgrader process operator - petroleum |
| 7311 | upgrading plant mechanic |
| 6345 | upholsterer |
| 9619 | upholsterer helper |
| 9217 | upholsterers foreman/woman - fabric, fur and leather products manufacturing |
| 6421 | upholstery and furniture repair salesperson |
| 6732 | upholstery cleaner |
| 9619 | upholstery cleaner and finisher |
| 9445 | upholstery marker and cutter |
| 6345 | upholstery mechanic |
| 9535 | upholstery moulder - plastic manufacturing |
| 9535 | upholstery presser - plastic manufacturing |
| 6345 | upholstery repairer |
| 9619 | upholstery trimmer |
| 9217 | upholstery-cutting and sewing foreman/woman |
| 9612 | upsetter helper - metal fabrication |
| 9416 | upsetter operator - metal forging |
| 9416 | upsetting machine operator - metal forging |
| 9441 | uptwister operator - textile manufacturing |
| 9441 | uptwister tender - textile manufacturing |
| 9411 | uranium classifier operator |
| 9415 | uranium ore evaluator |
| 9211 | uranium processing foreman/woman |
| 2153 | urban and regional planner |
| 2122 | urban forester |
| 4169 | urban geographer |
| 2153 | urban planner |
| 0212 | urban planning and development assistant director - government services |
| 0212 | urban planning and development director - government services |
| 0212 | urban planning and renewal director - government services |
| 4011 | urban planning professor - university |
| 2231 | urban planning technician |
| 2153 | urban renovation planner |
| 2131 | urban road system engineer |
| 7522 | urban snow removal equipment operator - public works |
| 4169 | urban sociologist |
| 7512 | urban transit operator |
| 7305 | urban transit system foreman/woman |
| 0731 | urban transit system manager |
| 3111 | urologist |
| 7452 | used building materials yard attendant |
| 7322 | used car renovator |
| 6421 | used-car salesperson - retail |
| 2283 | user acceptance tester |
| 5241 | user experience designer |
| 2282 | user support technician |
| 1431 | utilities billing clerk |
| 1411 | utilities clerk |
| 7612 | utilities instrument mechanic helper |
| 1525 | utilities maintenance crew dispatcher |
| 7522 | utility arborist |
| 1411 | utility clerk |
| 7522 | utility forester |

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|---|---|
| 9611 | utility labourer - primary metal and mineral products processing |
| 7522 | utility locator |
| 9611 | utility machine worker - primary metal and mineral products processing |
| 7442 | utility maintenance worker |
| 9614 | utility man/woman - pulp and paper |
| 9523 | utility operator - electronic equipment manufacturing |
| 9522 | utility operator - motor vehicle manufacturing |
| 7311 | utility plant maintenance mechanic |
| 7442 | utility plant maintenance worker |
| 7522 | utility pole inspector |
| 7612 | utility pole installer |
| 7522 | utility pole tester |
| 9522 | utility repairer - motor vehicle manufacturing |
| 7522 | utility tree trimmer |
| 7522 | utility tree worker |

## V

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|---|---|
| 5254 | vacation camp counsellor |
| 5254 | vacation camp leader |
| 2221 | vaccine technician |
| 9537 | vacuum bottle assembler |
| 9619 | vacuum bottle exhaust machine feeder |
| 9524 | vacuum cleaner assembler |
| 7332 | vacuum cleaner repairer |
| 7332 | vacuum cleaner repairman/woman |
| 7332 | vacuum cleaner servicer |
| 9523 | vacuum evaporation process plater - electronic equipment manufacturing |
| 9231 | vacuum furnace operator - primary metal processing |
| 9231 | vacuum-degasser process operator - primary metal processing |
| 9536 | vacuum-metallizer tender |
| 6742 | valet |
| 1434 | valuation clerk - financial sector |
| 1314 | valuation consultant |
| 1314 | valuator-appraiser |
| 9423 | valve buffer - rubber products manufacturing |
| 9418 | valve spring coiler |
| 9418 | valve spring winder |
| 9446 | vamp stitcher |
| 9522 | van assembler |
| 7452 | van loader |
| 7441 | vanity and kitchen cupboard installer |
| 7611 | vanity and kitchen cupboard installer helper |
| 9422 | vaporizer - plastic manufacturing |
| 9523 | variable capacitor tester |
| 9523 | variable resistor assembler |
| 9437 | variety saw operator - woodworking |
| 0621 | variety store manager |
| 1423 | VariTyper operator |
| 9421 | varnish maker |
| 9613 | varnish maker helper |
| 9435 | varnishing machine tender |
| 3216 | vascular sonographer |
| 3111 | vascular surgeon |
| 3217 | vascular technologist |
| 6732 | vat washer |
| 1434 | vault attendant - financial sector |
| 1431 | vault clerk |
| 1451 | vault clerk - film library |
| 6541 | vault custodian |
| 7384 | vault repairer |
| 7384 | vault servicer |
| 9423 | V-belt builder, rubber |
| 9214 | V-belt building supervisor - rubber products manufacturing |
| 9214 | V-belt foreman/woman - rubber manufacturing |
| 9465 | veal grader |
| 5232 | veejay (VJ) - video performance artist |
| 9461 | vegetable canner - food and beverage processing |
| 9213 | vegetable canning supervisor |
| 9461 | vegetable dryer tender - food and beverage processing |
| 8252 | vegetable farm foreman/woman |
| 8431 | vegetable farm worker |
| 8252 | vegetable farm workers foreman/woman |
| 0821 | vegetable gardener |
| 9461 | vegetable grinder - food and beverage processing |
| 0821 | vegetable grower |
| 2222 | vegetable inspector |
| 9461 | vegetable oil extractor |
| 9461 | vegetable oil extractor, solvent process |
| 8611 | vegetable packer - farm |
| 9213 | vegetable packing supervisor |
| 8611 | vegetable picker |
| 8611 | vegetable sorter - farm |
| 8431 | vegetable thinner |
| 6732 | vehicle cleaner |
| 9536 | vehicle cleaner-coater |
| 1454 | vehicle counter |
| 1523 | vehicle servicing clerk |
| 9416 | vehicle spring repairer - metal forging |
| 6345 | vehicle upholstery repairer |
| 6741 | velvet steamer - laundry and dry cleaning |
| 9526 | vending machine assembler |
| 9226 | vending machine assembly foreman/woman |
| 7514 | vending machine driver-supplier |
| 7445 | vending machine mechanic |
| 7445 | vending machine repairer |
| 6411 | vending machine sales representative |
| 6411 | vending machine services sales representative |
| 9526 | vending machine tester |
| 6623 | vendor |

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| **9436** | veneer and plywood grader - wood processing |
| **9434** | veneer clipper - wood processing |
| **9434** | veneer cutter - wood processing |
| **9614** | veneer dryer feeder |
| **9434** | veneer dryer tender |
| **9434** | veneer dryer tender - wood processing |
| **9215** | veneer foreman/woman - wood processing |
| **9436** | veneer grader |
| **9436** | veneer grader - wood processing |
| **9215** | veneer inspection foreman/woman - wood processing |
| **9434** | veneer jointer - wood processing |
| **9434** | veneer jointer operator - wood processing |
| **9434** | veneer lathe operator |
| **9434** | veneer lathe operator - wood processing |
| **9434** | veneer matcher - wood processing |
| **9434** | veneer patcher - wood processing |
| **9434** | veneer reel tender - wood processing |
| **9437** | veneer sander - woodworking |
| **9434** | veneer slicer-lather - wood processing |
| **9434** | veneer splicer tender - wood processing |
| **9434** | veneer strip cut-off sawyer - wood processing |
| **9434** | veneer taper - wood processing |
| **9224** | veneering foreman/woman - furniture and fixtures manufacturing |
| **9224** | veneering shop foreman/woman - furniture and fixtures manufacturing |
| **9434** | veneer-slicing machine operator - wood processing |
| **9537** | Venetian blind assembler |
| **7441** | Venetian blind installer |
| **9537** | Venetian blind maker |
| **6732** | venetian blinds cleaner and repairer |
| **8411** | ventilation man/woman - underground mining |
| **6732** | ventilation system cleaner |
| **5232** | ventriloquist |
| **5112** | vertebrate zoology curator |
| **5112** | vertebrate zoology museum curator |
| **9417** | vertical boring machine operator |
| **9417** | vertical boring mill operator |
| **9417** | vertical boring mill set-up operator - metal machining |
| **9417** | vertical machining centre operator |
| **9417** | vertical milling machine set-up operator - metal machining |
| **9416** | vertical press operator |
| **9416** | vertical press operator - metal fabrication |
| **9437** | vertical resaw operator - woodworking |
| **9416** | vertical roll operator - metal fabrication |
| **9417** | vertical-spindle milling machine set-up operator - metal machining |
| **9412** | vessel operator - foundry |
| **4212** | veteran services officer |
| **4212** | veterans' affairs field officer |
| **0423** | veterans' services director |
| **3114** | veterinarian |
| **3213** | veterinarian assistant |
| **3114** | veterinarian practitioner |
| **3114** | veterinary anatomist |
| **6563** | veterinary attendant |
| **3114** | veterinary bacteriologist |
| **3114** | veterinary dentist |
| **3114** | veterinary epidemiologist |
| **6221** | veterinary equipment and supplies salesperson |
| **6563** | veterinary helper |
| **3114** | veterinary inspector |
| **3114** | veterinary internist |
| **3114** | veterinary laboratory diagnostician |
| **3213** | veterinary laboratory technician |
| **4011** | veterinary medicine professor - university |
| **3114** | veterinary microbiologist |
| **3114** | veterinary parasitologist |
| **2121** | veterinary parasitology biologist |
| **3114** | veterinary pathologist |
| **3114** | veterinary pharmacologist |
| **3114** | veterinary physiologist |
| **3114** | veterinary radiologist |
| **3114** | veterinary surgeon |
| **3213** | veterinary technician |
| **3213** | veterinary technician supervisor |
| **3213** | veterinary technologist |
| **3114** | veterinary virologist |
| **5223** | VFX artist |
| **5131** | VFX project manager |
| **2261** | vibration analysis technician - non-destructive testing |
| **2232** | vibration technologist |
| **7237** | vibration welder |
| **8615** | vibrator operator - seismic prospecting |
| **7611** | vibrator roller operator |
| **7611** | vibratory compactor operator |
| **7521** | vibratory road roller operator |
| **7521** | vibratory roller operator |
| **0433** | vice admiral |
| **4311** | vice squad detective |
| **0012** | vice-consul |
| **0421** | vice-president - college or university |
| **0013** | vice-president - financial, communications and other business services |
| **0016** | vice-president - goods production, utilities, transportation and construction |
| **0012** | vice-president - government services |
| **0014** | vice-president - health, education, social and community services and membership organizations |
| **0015** | vice-president - trade, broadcasting and other services |
| **0015** | vice-president and general sales manager - trade, broadcasting and other services |
| **3012** | Victoria Order nurse |

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|---|---|
| **3012** | Victorian Order of Nurses (VON) nurse |
| **5225** | video and sound recorder |
| **5113** | video archivist |
| **5136** | video artist |
| **5222** | video camera operator |
| **2242** | video camera repairer - household and business equipment |
| **2242** | video cassette recorder repairer |
| **5224** | video control operator |
| **5131** | video director |
| **2242** | video equipment installation and repair technician - household and business equipment |
| **6421** | video equipment salesperson - retail |
| **5131** | video game art director |
| **5223** | video game artist |
| **5223** | video game designer |
| **5131** | video game producer |
| **2283** | video game tester |
| **5131** | video games project manager |
| **5131** | video illustrator - multimedia work |
| **5231** | video jockey (VJ) - television broadcast |
| **5131** | video maker |
| **5131** | video producer |
| **0512** | video production company manager |
| **5225** | video recorder |
| **5225** | video recording technician |
| **6421** | video rental clerk |
| **0621** | video rental store manager |
| **5225** | video sound mixer |
| **0621** | video store manager |
| **5225** | video technician |
| **5224** | video transmission operator |
| **5224** | video transmission studio control operator |
| **5225** | video-editing equipment operator |
| **5222** | videographer |
| **5225** | video-recording equipment operator |
| **5225** | videotape editor |
| **5225** | videotape postproduction editor |
| **5225** | videotape recording (VTR) editor |
| **5225** | videotape recording (VTR) operator |
| **5225** | videotape technician |
| **1423** | videotext operator |
| **9461** | vinegar maker |
| **9617** | vinegar maker helper |
| **8252** | vineyard foreman/woman |
| **0821** | vineyard manager |
| **8431** | vineyard pruner |
| **8431** | vineyard worker |
| **8252** | vineyard workers foreman/woman |
| **9421** | vinyl and asbestos-blending machine tender |
| **9421** | vinyl fabrics inspector |
| **7295** | vinyl floor installer |
| **7295** | vinyl floor layer |
| **5223** | vinyl lettering artist |
| **7441** | vinyl pool installer |
| **9522** | vinyl roof installer - motor vehicle manufacturing |
| **7295** | vinyl tile layer |
| **5133** | viola teacher - private, conservatory or studio lessons |
| **5244** | violin maker |
| **7445** | violin repairer |
| **5133** | violin teacher - private, conservatory or studio lessons |
| **5133** | violinist |
| **2121** | virologist |
| **2221** | virology technologist |
| **9421** | viscose filter operator |
| **9212** | viscose filtration foreman/woman - chemical processing |
| **9421** | viscose maker |
| **9421** | viscose solution mixer |
| **4164** | visible minorities policy officer |
| **4412** | visiting homemaker |
| **3012** | visiting nurse |
| **4011** | visiting professor - university |
| **4011** | visiting scholar - university |
| **4032** | visiting teacher - elementary school |
| **6521** | visitor information counsellor |
| **4163** | visitor interpretation services co-ordinator - government |
| **5136** | visual arts artist |
| **4011** | visual arts department chairman/woman - university |
| **4011** | visual arts department chairperson - university |
| **4011** | visual arts department head - university |
| **5136** | visual arts teacher (except primary, secondary, post-secondary education) |
| **5243** | visual display stylist |
| **5223** | visual effects artist |
| **5131** | visual effects producer |
| **5131** | visual effects project manager |
| **5131** | visual effects technical director - motion pictures |
| **2272** | visual flight rules air traffic controller |
| **2261** | visual inspection technician - welding |
| **5125** | visual language interpreter |
| **5243** | visual merchandiser |
| **3231** | visual orthesis technician |
| **3231** | visual orthotic device technician |
| **2161** | vital statistician |
| **0821** | viticulturist |
| **5232** | VJ (veejay) - video performance artist |
| **5231** | VJ (video jockey) - television broadcast |
| **5133** | vocal music teacher - private, conservatory or studio lessons |
| **5133** | vocal soloist |
| **5133** | vocalist |
| **4033** | vocational counsellor - education |
| **0411** | vocational education director - government services |

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| 3143 | vocational evaluator occupational therapist |
| 0422 | vocational high school principal |
| 4031 | vocational high school teacher |
| 4021 | vocational institute teacher |
| 4151 | vocational psychologist |
| 4153 | vocational rehabilitation consultant |
| 4153 | vocational rehabilitation counsellor |
| 0423 | vocational rehabilitation unit manager |
| 0421 | vocational school administrator |
| 0421 | vocational school director |
| 0421 | vocational school manager |
| 4031 | vocational secondary school teacher |
| 4031 | vocational teacher - secondary school |
| 4021 | vocational trainer |
| 0411 | vocational training director - government services |
| 0112 | vocational training director - human resources |
| 5135 | voice coach |
| 1414 | voice communication system operator |
| 5133 | voice teacher - music |
| 5133 | voice teacher - private, conservatory or studio lessons |
| 5135 | voice-over actor |
| 2113 | volcanologist |
| 5252 | volleyball coach |
| 5251 | volleyball player |
| 7243 | voltage regulator maintainer - electrical power system |
| 0014 | voluntary organization executive director |
| 0423 | volunteer services director |
| 3012 | VON (Victorian Order of Nurses) nurse |
| 1431 | voucher clerk |
| 5225 | VTR (videotape recording) editor |
| 5225 | VTR (videotape recording) operator |
| 9214 | vulcanization supervisor - rubber products manufacturing |
| 9615 | vulcanization worker - rubber products manufacturing |
| 9423 | vulcanizer - rubber products manufacturing |
| 9214 | vulcanizing foreman/woman - rubber manufacturing |
| | **W** |
| 9435 | wad compressor operator |
| 9523 | wafer fabrication operator |
| 9523 | wafer fabrication operator - electronic equipment manufacturing |
| 9527 | wafer machine tender - electrical equipment manufacturing |
| 9523 | wafer technician - electronic equipment manufacturing |
| 9215 | waferboard foreman/woman |
| 9215 | waferboard making foreman/woman - wood processing |
| 9434 | waferboard press operator |
| 9434 | waferboard press operator - wood processing |
| 9527 | wafering machine operator - electrical equipment manufacturing |
| 1121 | wage analyst |
| 4162 | wage analyst - economic policy |
| 0112 | wage and salary administration manager |
| 8231 | wagon drill operator - underground mining |
| 6513 | waiter/waitress |
| 6513 | waiter/waitress - drive-in restaurant |
| 6513 | waiter/waitress - food and beverage services |
| 7371 | walking bridge crane operator |
| 6531 | walking tour guide |
| 7284 | wall and ceiling installer |
| 6731 | wall washer |
| 7284 | wallboard installer |
| 7611 | wallboard sander |
| 7284 | wallboard taper |
| 5241 | wallpaper colourist |
| 5241 | wallpaper designer |
| 7381 | wallpaper gravure proof press operator |
| 9537 | wallpaper inspector |
| 9435 | wallpaper lapper |
| 9435 | wallpaper lapper - paper converting |
| 9471 | wallpaper printer |
| 9619 | wallpaper printer helper |
| 9435 | wallpaper reeler |
| 9435 | wallpaper reeler - paper converting |
| 7381 | wallpaper rotogravure press operator |
| 6421 | wallpaper salesperson - retail |
| 9471 | wallpaper sample sheet cutter-marker |
| 9471 | wallpaper sample sheet marker |
| 2281 | WAN (wide area network) administrator |
| 2281 | WAN (wide area network) technician |
| 3413 | ward aide - medical |
| 1411 | ward clerk - hospital |
| 3012 | ward nurse |
| 1243 | ward secretary |
| 1243 | ward secretary - hospital |
| 3011 | ward supervisor - nursing |
| 5227 | wardrobe assistant |
| 5227 | wardrobe attendant |
| 6561 | wardrobe consultant |
| 5226 | wardrobe co-ordinator |
| 5226 | wardrobe master/mistress |
| 5226 | wardrobe supervisor |
| 9611 | ware cleaner - clay products manufacturing |
| 9414 | ware dresser - concrete, clay and stone products |
| 0714 | warehouse and distribution centre manager |
| 1522 | warehouse checker |
| 1522 | warehouse clerk - parts and equipment |
| 1215 | warehouse distribution supervisor |
| 1215 | warehouse foreman/woman |
| 7452 | warehouse keeper helper |
| 0714 | warehouse manager |

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| 1522 | warehouse person - parts and equipment |
| 1521 | warehouse receiver |
| 1521 | warehouse shipper |
| 1521 | warehouse shipping clerk |
| 0714 | warehouse superintendent |
| 1215 | warehouse supervisor |
| 7452 | warehouse worker - material handling |
| 7452 | warehouseman/woman |
| 7452 | warehouseperson |
| 0714 | warehousing manager |
| 9441 | warp beamer - textile manufacturing |
| 9616 | warp beamer helper - textile processing |
| 9442 | warp drawer - textiles |
| 9442 | warp drawer-in helper - textiles |
| 9441 | warp dresser - textile manufacturing |
| 9441 | warp end dresser - textile manufacturing |
| 9441 | warp end dyer - textile manufacturing |
| 9442 | warp knitting machine tender |
| 9442 | warp placer - textiles |
| 9441 | warp spinner - textile manufacturing |
| 9447 | warp tension tester - textiles |
| 9442 | warp tier-in |
| 9442 | warp tier-in - textiles |
| 9441 | warp twister tender - textile manufacturing |
| 9442 | warp tying machine tender - textiles |
| 9441 | warper - textile manufacturing |
| 9441 | warper operator - textile manufacturing |
| 9441 | warper tender, automatic - textiles manufacturing |
| 9441 | warping operator - textile manufacturing |
| 4313 | warrant officer |
| 1411 | warranty clerk |
| 9213 | wash house foreman/woman - food and beverage processing |
| 9422 | wash line operator - plastic recycling |
| 9421 | washer and dryer - chemical processing |
| 9432 | washer operator, pulp |
| 9432 | washerman/woman - pulp and paper |
| 9421 | wash-house and recovery operator |
| 9617 | washing and waxing machine tender - food and beverage processing |
| 9524 | washing machine assembler - electrical equipment manufacturing |
| 6741 | washing machine extractor operator - laundry and dry cleaning |
| 6741 | washing machine extractor tender - laundry and dry cleaning |
| 6741 | washing machine operator - laundry and dry cleaning |
| 7332 | washing machine repairman/woman |
| 7332 | washing machine servicer |
| 9441 | washing machine tender - textile manufacturing |
| 9432 | washing-screening operator - pulp and paper |
| 9534 | wash-off operator - furniture finishing |
| 6731 | washroom cleaner |
| 4161 | waste diversion consultant |
| 4161 | waste diversion program co-ordinator |
| 4161 | waste diversion program manager |
| 9616 | waste machine feeder |
| 9616 | waste machine feeder - textile processing |
| 0912 | waste management director |
| 4161 | waste management program co-ordinator |
| 4161 | waste reduction and recycling officer |
| 4161 | waste reduction education program officer |
| 4161 | waste reduction program co-ordinator |
| 2134 | waste treatment engineer |
| 9411 | waste treatment operator - metal processing |
| 9243 | waste treatment plant operator |
| 9212 | waste treatment supervisor |
| 2263 | waste water treatment plant inspector |
| 0912 | waste water treatment system director |
| 9243 | wastewater collection operator |
| 9243 | wastewater collection systems operator |
| 9243 | wastewater treatment operator |
| 9243 | wastewater treatment plant operator |
| 9243 | wastewater treatment plant worker |
| 9537 | watch assembler |
| 9537 | watch assembly inspector |
| 9537 | watch balance wheel adjuster |
| 9537 | watch crystal edge grinder |
| 9537 | watch escapement put-in-beat adjuster |
| 9537 | watch final assembly inspector |
| 9537 | watch inspector |
| 9537 | watch movement tester |
| 6344 | watch repairer |
| 6344 | watch repairer apprentice |
| 6344 | watch repairman/woman |
| 6421 | watch sales clerk |
| 6421 | watch salesperson - retail |
| 2273 | watchkeeping officer - water transport |
| 6344 | watchmaker |
| 9212 | water and sanitation-utilities equipment operating occupations foreman/woman |
| 2131 | water and sewer engineer |
| 9212 | water and sewer foreman/woman |
| 9243 | water and wastewater technician |
| 2271 | water bomber pilot |
| 7533 | water bus captain |
| 7533 | water bus master |
| 7533 | water bus operator |
| 2112 | water chemist |
| 7441 | water conditioner repairer |
| 7441 | water conditioner servicer |
| 0912 | water department director |
| 0912 | water distribution manager |
| 2231 | water distribution systems technician |
| 0912 | water filtration plant manager |
| 7311 | water filtration plant mechanic |
| 9243 | water filtration plant operator |
| 9212 | water filtration plant supervisor |
| 9243 | water gate operator |
| 7441 | water heater installer |
| 7441 | water heater servicer |

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| **2263** | water inspector |
| **9613** | water intake tender |
| **9613** | water intake tender - utilities |
| **9522** | water leak examiner - motor vehicle manufacturing |
| **9522** | water leak inspector - motor vehicle manufacturing |
| **7442** | water main maintenance man/woman |
| **7442** | water main maintenance worker |
| **2131** | water management engineer |
| **7442** | water meter installer |
| **7445** | water meter repairer |
| **7611** | water pipe installer |
| **9243** | water plant pump operator |
| **0912** | water pollution control director |
| **9212** | water pollution control foreman/woman |
| **9526** | water pump assembler |
| **2112** | water purification chemist |
| **9212** | water purification plant foreman/woman |
| **9243** | water purification plant operator |
| **2211** | water purification technician |
| **2131** | water resources engineer |
| **1525** | water service dispatcher |
| **7441** | water softener installer |
| **7441** | water softener repairer |
| **7441** | water softener servicer |
| **7441** | water softening system servicer |
| **0912** | water supply director |
| **7442** | water supply maintenance worker |
| **7442** | water system maintenance worker |
| **2131** | water systems engineer |
| **7533** | water taxi captain |
| **7533** | water taxi master |
| **7533** | water taxi operator |
| **0731** | water transport manager |
| **9212** | water treatment chief operator |
| **2131** | water treatment engineer |
| **9212** | water treatment lead operator |
| **9212** | water treatment operations supervisor |
| **9243** | water treatment operator |
| **9212** | water treatment plant foreman/woman |
| **7311** | water treatment plant mechanic |
| **9243** | water treatment plant operator |
| **9411** | water treatment plant operator - primary metal processing |
| **9243** | water treatment plant process technician |
| **9212** | water treatment plant superintendent |
| **9212** | water treatment plant supervisor |
| **9243** | water treatment systems operator |
| **7442** | water utilities plant maintenance man/woman |
| **9243** | water utility operator |
| **7373** | water well driller |
| **7373** | water well driller apprentice |
| **7611** | water well driller helper |
| **7373** | water well driller journeyman/woman |
| **7302** | water well drilling contractor |
| **7302** | water well drilling foreman/woman |
| **7302** | water well drilling supervisor |
| **7373** | water well drilling technician |
| **5136** | watercolourist |
| **2273** | waterman/woman |
| **5252** | water-polo coach |
| **5251** | water-polo player |
| **9537** | waterproofer |
| **7611** | waterproofer - construction |
| **7291** | waterproofer and roofer |
| **7611** | waterproofer helper |
| **7205** | waterproofers foreman/woman |
| **7205** | waterproofing foreman/woman |
| **6722** | waterslide attendant |
| **7441** | water-softening system installer |
| **7441** | water-softening system repairer |
| **2275** | waterway traffic checker |
| **7302** | waterworks construction foreman/woman |
| **2264** | waterworks construction inspector |
| **0912** | waterworks director |
| **9613** | waterworks labourer |
| **7442** | waterworks maintenance worker |
| **0912** | waterworks manager |
| **9243** | waterworks pump house operator |
| **9243** | waterworks pumping station operator |
| **7442** | waterworks repairman/woman |
| **0912** | waterworks superintendent |
| **7442** | waterworks utility servicer |
| **9523** | wave soldering machine operator |
| **9523** | wave soldering machine operator - electronic equipment manufacturing |
| **9421** | wax bleacher |
| **6562** | wax depilation specialist |
| **6562** | wax depilator |
| **9613** | wax moulder |
| **9441** | waxer - textile manufacturing |
| **9619** | waxer, explosives manufacturing |
| **9412** | wax-pattern assembler and repairer |
| **9412** | wax-pattern coater |
| **9412** | wax-pattern moulder |
| **9412** | wax-pattern mouldmaker |
| **6421** | wearing apparel salesperson - retail |
| **2255** | weather briefer |
| **2255** | weather chart plotter |
| **2255** | weather forecast presentation technician |
| **2114** | weather forecaster |
| **5231** | weather reporter |
| **2255** | weather station officer-in-charge |
| **2255** | weather station operations technician |
| **7441** | weather strip installer |
| **7441** | weather stripper |
| **7311** | weave changer - textile manufacturing |
| **9217** | weave room foreman/woman - textile processing |
| **9217** | weave room supervisor |
| **9217** | weave room supervisor - textile processing |
| **5244** | weaver - arts and crafts |
| **9418** | weaver - metal products manufacturing |

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| 9442 | weaver - textiles |
| 9418 | weaver, wire lattices |
| 9217 | weaving foreman/woman |
| 9447 | weaving inspector |
| 9217 | weaving inspector foreman/woman - textile processing |
| 5244 | weaving instructor (except education) |
| 9217 | weaving room supervisor - textile processing |
| 9217 | weaving room supervisor - textiles |
| 9217 | weaving supervisor |
| 0124 | Web communications manager |
| 2175 | Web designer |
| 5241 | Web designer - graphic design |
| 2175 | Web developer |
| 5241 | Web graphic designer |
| 2175 | Web manager |
| 0124 | Web marketing manager |
| 5241 | Web page designer |
| 7381 | Web press operator - printing |
| 7381 | Web pressman/woman - printing |
| 2174 | Web programmer |
| 2281 | Web site administrator |
| 2175 | Web site designer |
| 2175 | Web site developer |
| 5122 | Web site editor |
| 2281 | Web technician |
| 2175 | Webmaster |
| 6332 | wedding cake decorator |
| 6561 | wedding consultant |
| 6561 | wedding services consultant |
| 9619 | wedger, machine |
| 8255 | weed control foreman/woman |
| 8252 | weed control service contractor - agriculture |
| 9441 | weft straightener - textile manufacturing |
| 4423 | weigh station operator - by-law enforcement |
| 9461 | weigh tank tender - food and beverage processing |
| 9421 | weigher - chemical processing |
| 9615 | weigher - plastic and rubber manufacturing |
| 9421 | weigher and mixer, colorants - chemical processing |
| 9619 | weigher-counter |
| 9619 | weigher-manufacturing |
| 2146 | weight and balance engineer - aerospace |
| 6561 | weight loss adviser |
| 6561 | weight loss consultant |
| 5251 | weight-lifter |
| 5254 | weightlifting instructor |
| 0651 | weight-loss clinic manager |
| 2262 | weights and measures inspector |
| 8262 | weir fisherman/woman |
| 2261 | weld tester |
| 9521 | welded assemblies fitter-tester - aircraft assembly |
| 7237 | welder |
| 7237 | welder apprentice |
| 7201 | welder foreman/woman |
| 9612 | welder helper |
| 7237 | welder operator |
| 7201 | welder supervisor |
| 7237 | welder-assembler |
| 7237 | welder-fitter |
| 9612 | welder-fitter helper |
| 7611 | welder-fitter helper - construction |
| 9612 | welder-fitter helper - manufacturing |
| 7201 | welding contractor |
| 2142 | welding engineer |
| 7311 | welding equipment mechanic |
| 7311 | welding equipment repairer |
| 6221 | welding equipment salesperson |
| 7237 | welding lay-out man/woman |
| 7311 | welding machine mechanic |
| 7237 | welding machine operator |
| 9612 | welding machine operator helper |
| 7252 | welding pipefitter |
| 9418 | welding rod-extruder operator |
| 9418 | welding rod-extruder tender |
| 7201 | welding supervisor |
| 4021 | welding teacher - technical institute |
| 2212 | welding technician - mining |
| 2212 | welding technologist |
| 9611 | welding-rod-extruder operator helper - primary metal processing |
| 4212 | welfare and compensation officer |
| 4162 | welfare economist |
| 2263 | welfare institute inspector - public health |
| 0423 | welfare manager |
| 4153 | welfare organization counsellor |
| 0423 | welfare organization department director |
| 0423 | welfare organization director |
| 0423 | welfare organization manager |
| 4212 | welfare organization supervisor |
| 4164 | welfare policy analysts supervisor |
| 4155 | welfare program officer - corrections |
| 0411 | welfare services administration director - government services |
| 0411 | welfare services administrator - government services |
| 0411 | welfare services director - government services |
| 4212 | welfare worker |
| 1225 | well and facilities asset analyst |
| 0125 | well and facilities asset manager |
| 7302 | well digging contractor |
| 7302 | well digging supervisor |
| 7302 | well drilling contractor |
| 7302 | well drilling supervisor |
| 2145 | well logging engineer |
| 8232 | well puller - oil field services |
| 8615 | well puller helper - oil field services |
| 8222 | well services crew supervisor |
| 8222 | well services crew supervisor - oil and gas drilling |

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| **8222** | well services crew supervisor - oil field services |
| **8222** | well site consultant - oil and gas |
| **8232** | well testing operator |
| **8232** | well testing operator - oil and gas drilling |
| **8412** | well treatment blender operator - oil field services |
| **8615** | well treatment helper |
| **8615** | well treatment helper - oil field services |
| **8412** | well treatment pump operator - oil field services |
| **4165** | wellness consultant |
| **4165** | wellness co-ordinator |
| **4165** | wellness program co-ordinator |
| **9243** | well-point pump operator |
| **2113** | wellsite co-ordinator - geology |
| **9619** | welt butter and tacker - shoe manufacturing |
| **9445** | welt maker - hat manufacturing |
| **9445** | welt-trimming machine tender - hat manufacturing |
| **9232** | wet explosives mixer |
| **9411** | wet plant recovery equipment tender - primary metal processing |
| **9461** | wet process miller - food and beverage processing |
| **9537** | wet suit maker |
| **9213** | wet-starch foreman/woman - food and beverage processing |
| **1431** | wharf clerk |
| **1431** | wharfinger |
| **7451** | wharfman/woman - marine cargo handling |
| **0821** | wheat farmer |
| **0821** | wheat grower |
| **0821** | wheat producer |
| **7321** | wheel alignment and brake mechanic |
| **7321** | wheel alignment and brake specialist |
| **7314** | wheel and axle inspector - railway |
| **9522** | wheel and tire installer - automobile assembly |
| **7301** | wheel shop foreman/woman - railway equipment |
| **9612** | wheelabrator operator |
| **9612** | wheelabrator operator - metal products manufacturing |
| **9526** | wheelchair lift assembler |
| **7532** | wheelsman/woman |
| **9537** | whisk assembler |
| **9421** | white lead mixer |
| **9412** | white-metal caster - foundry |
| **9534** | whitener - furniture finishing and refinishing |
| **6532** | whitewater rafting guide |
| **6222** | wholesale buyer |
| **0621** | wholesale establishment manager |
| **0621** | wholesale establishment managing supervisor |
| **6411** | wholesale purveyor |
| **6411** | wholesale trade representative |
| **6411** | wholesale trade representatives supervisor |
| **0621** | wholesaler |
| **0015** | wholesaler - broadcasting |
| **1511** | wicket clerk - mail and postal services |
| **2281** | Wide area network (WAN) administrator |
| **2281** | wide area network (WAN) technician |
| **5227** | wig assistant - motion pictures, broadcasting and performing arts |
| **9537** | wig hair preparer |
| **5226** | wig hairdresser - motion pictures, broadcasting and performing arts |
| **9537** | wig maker |
| **6341** | wig stylist |
| **5212** | wilderness interpreter |
| **2121** | wildlife biologist |
| **2221** | wildlife biology technician |
| **2121** | wildlife helminthologist |
| **2121** | wildlife naturalist |
| **5221** | wildlife photographer |
| **2221** | wildlife resources technician |
| **2221** | wildlife technician |
| **2221** | wildlife technologist |
| **9441** | willow operator - textile manufacturing |
| **4211** | wills and estates law clerk |
| **1242** | wills and estates legal assistant |
| **4211** | wills and estates paralegal |
| **4161** | wind energy analyst |
| **7445** | wind instrument repairer |
| **2232** | wind tunnel test technician |
| **2232** | wind tunnel test technologist |
| **9616** | winder cleaner - textile processing |
| **7311** | winder fixer - textile manufacturing |
| **9433** | winder operator - pulp and paper |
| **9441** | winder operator - textile manufacturing |
| **9441** | winder tender - textile manufacturing |
| **9525** | winder, AC (alternating current) and DC (direct current) armatures |
| **7333** | winder-electrician |
| **9433** | winderman/woman - pulp and paper |
| **9616** | winding frame cleaner - textile processing |
| **7311** | winding machine fixer - textile manufacturing |
| **9441** | winding machine operator - textile manufacturing |
| **9537** | winding machine tender - other products manufacturing |
| **9441** | winding machine tender - textile manufacturing |
| **9215** | winding room foreman/woman - pulp and paper |
| **9525** | windings inspector - large electric motors manufacturing |
| **7311** | windmill repairer |
| **7441** | window air conditioner installer |
| **7332** | window air conditioner mechanic |
| **7332** | window air conditioner repairer |
| **7612** | window air conditioner repairer helper |

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| **9537** | window and door assembler - PVC window and door manufacturing |
| **9537** | window and screen assembler |
| **9537** | window assembler, aluminum |
| **9537** | window blind mounter |
| **7611** | window caulker |
| **6732** | window cleaner |
| **5243** | window display designer |
| **7441** | Window Film Installer |
| **7441** | window installer |
| **7292** | window sash and frame glazier |
| **7441** | window shade installer |
| **9537** | window shade mounter |
| **6732** | window washer |
| **6315** | window washer supervisor |
| **0651** | window washing service manager |
| **6315** | window washing supervisor |
| **5254** | windsurfing instructor |
| **1522** | wine cellar attendant |
| **9461** | wine fermenter - food and beverage processing |
| **9461** | wine pasteurizer |
| **6411** | wine sales representative - wholesale |
| **6513** | wine server |
| **6513** | wine steward |
| **0621** | wine store manager |
| **6421** | wine store sales clerk |
| **9465** | wine tester |
| **6513** | wine waiter/waitress |
| **9461** | winemaker - food and beverage processing |
| **9465** | wineries fermentation inspector |
| **9465** | wineries gauger |
| **9213** | winery cellar master |
| **9461** | winery cellarman/woman - food and beverage processing |
| **0911** | winery manager |
| **9461** | winery-press operator |
| **9521** | wing assembler, aircraft |
| **9521** | wing inspector - aircraft assembly |
| **9521** | wing marry-up mechanic - aircraft assembly |
| **9521** | wing tank mechanic - aircraft assembly |
| **6532** | winter camping guide |
| **9461** | winterizer tender - food and beverage processing |
| **9523** | wire and harness assembler |
| **9418** | wire basket maker |
| **9619** | wire bender, hand |
| **9523** | wire bonder - electronic equipment manufacturing |
| **9619** | wire border assembler - furniture assembly |
| **9418** | wire bundle machine operator |
| **9418** | wire cable assembler and tester |
| **9418** | wire cable stretcher and tester |
| **9536** | wire coater |
| **9524** | wire connector - electrical equipment manufacturing |
| **9411** | wire drawer |
| **9611** | wire drawer helper |
| **9411** | wire drawer operator |
| **9211** | wire drawing foreman/woman - primary metal processing |
| **9611** | wire drawing helper |
| **9411** | wire drawing machine operator |
| **7441** | wire fence erector |
| **9612** | wire finisher |
| **9418** | wire lampshade frame maker |
| **7284** | wire lather |
| **9418** | wire lattice and wire mesh weaver |
| **9418** | wire lattice weaver |
| **9612** | wire loom helper |
| **9418** | wire loom operator |
| **9418** | wire loom setter |
| **9418** | wire loop machine operator |
| **9418** | wire mesh fence-making machine operator |
| **9418** | wire mesh gate assembler |
| **9418** | wire mesh knitter |
| **7611** | wire mesh setter |
| **9418** | wire netting weaver |
| **9415** | wire products inspector |
| **7311** | wire repairer - textile manufacturing |
| **9418** | wire rewinder, machine |
| **9411** | wire roller operator - primary metal processing |
| **9418** | wire rope maker |
| **9418** | wire rope sling and cable splicer |
| **9411** | wire sample former |
| **9414** | wire saw operator - concrete, clay and stone products |
| **9418** | wire screen cutter and trimmer |
| **9418** | wire screen former |
| **9418** | wire screen maker |
| **9418** | wire screen weaver |
| **9411** | wire sheather - primary metal processing |
| **9523** | wire soldering operator |
| **7244** | wire splicer - electric power systems |
| **7245** | wire splicer - telecommunications |
| **9612** | wire spooler - metal products manufacturing |
| **9527** | wire stripper - electrical equipment manufacturing |
| **9415** | wire tester and inspector - primary metal processing |
| **9536** | wire tinner |
| **9418** | wire weaver |
| **9612** | wire weaver helper |
| **7237** | wire welder |
| **9523** | wire wound resistor calibrator |
| **9523** | wire wound resistor calibrator - electronic equipment manufacturing |
| **9523** | wire wound resistor inspector - electronic equipment manufacturing |
| **9536** | wire-coating equipment operator |
| **9418** | wire-coiner operator |
| **9418** | wire-crimping machine operator |

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| 9523 | wire-cutting machine operator - electronic equipment manufacturing |
| 7232 | wire-drawing die maker |
| 2147 | wireless communications network engineer |
| 8222 | wireline field supervisor - oil field services |
| 8615 | wireline helper |
| 8615 | wireline helper - oil field services |
| 8232 | wireline operator |
| 8232 | wireline operator - oil field services |
| 8232 | wireline operator trainee |
| 9525 | wireman/woman - industrial electrical equipment |
| 7246 | wireman/woman - telecommunications |
| 9418 | wire-netting machine operator |
| 9527 | wire-numbering machine tender - electrical equipment manufacturing |
| 9536 | wire-paint-coating machine tender |
| 9418 | wire-pairing machine tender |
| 7246 | wirer - telecommunications |
| 9524 | wirer, electric lighting fixtures |
| 9525 | wirer/woman - industrial electrical equipment |
| 9418 | wire-rewinding machine tender |
| 9418 | wire-weaving loom setter |
| 9527 | wireworker - electrical equipment manufacturing |
| 9418 | wireworks weaver - metal products manufacturing |
| 9523 | wire-wrapping machine operator - electronic equipment manufacturing |
| 9523 | wiring and assembly operator |
| 9523 | wiring and soldering operator - electronic equipment manufacturing |
| 7241 | wiring electrician |
| 2264 | wiring inspector - domestic installation |
| 2264 | wiring inspector - industrial installation |
| 9437 | wobble saw operator - woodworking |
| 4212 | women's centre co-ordinator - social services |
| 0423 | women's centre manager |
| 4212 | women's centre program supervisor - social services |
| 4212 | women's centre supervisor - social services |
| 6421 | women's clothing sales clerk |
| 4164 | women's employment policy consultant |
| 5243 | women's fashion designer |
| 6342 | women's garment alterations seamstress |
| 6342 | women's garment custom seamstress |
| 6342 | women's hat maker - milliner |
| 4164 | women's issues lobbyist |
| 4164 | women's program co-ordinator |
| 4164 | women's shelter program co-ordinator |
| 4212 | women's shelter supervisor |
| 4212 | women's shelter supervisor - social services |
| 4164 | women's status policy consultant |
| 6421 | women's wear sales clerk |
| 9437 | wood blank sawyer |
| 5136 | wood block artist |
| 7331 | wood burner installer |
| 7331 | wood burner maintainer |
| 2112 | wood chemist |
| 9614 | wood chip unloader |
| 8421 | wood cutter - logging |
| 9437 | wood driller - woodworking |
| 9534 | wood finisher - furniture finishing and refinishing |
| 7332 | wood fireplace servicer |
| 7295 | wood floor covering layer |
| 7295 | wood floor installer |
| 7204 | wood frame building foreman/woman |
| 7271 | wood frame carpenter |
| 7271 | wood frame house carpenter |
| 7331 | wood furnace installer |
| 7272 | wood furniture and fixtures patternmaker |
| 9532 | wood furniture assembler |
| 9533 | wood furniture repairer - wood products manufacturing |
| 9534 | wood grainer - furniture finishing and refinishing |
| 9437 | wood lathe turner - woodworking |
| 7284 | wood lather |
| 9533 | wood machining inspector |
| 9224 | wood machining workers foreman/woman - furniture and fixtures manufacturing |
| 9436 | wood marker - wood processing |
| 9436 | wood measurer |
| 9436 | wood measurer - wood processing |
| 7272 | wood model maker |
| 7272 | wood mould maker |
| 9434 | wood particle dryer tender |
| 9434 | wood particles mixer-dryer tender |
| 7272 | wood pattern inspector |
| 7272 | wood pattern repairman/woman - foundry |
| 7272 | wood patternmaker |
| 7204 | wood patternmakers foreman/woman |
| 9436 | wood processing grader |
| 9436 | wood processing inspector |
| 9614 | wood processing labourer |
| 9533 | wood products assembler |
| 9533 | wood products assembling inspector |
| 9533 | wood products assembly inspector |
| 9533 | wood products assembly lead hand |
| 9533 | wood products bench assembler |
| 9533 | wood products factory assembler |
| 9619 | wood products finisher - furniture manufacturing |
| 9227 | wood products foreman/woman |
| 9533 | wood products gluer |
| 9533 | wood products inspector - wood products manufacturing |
| 9619 | wood products machine feeder |
| 9437 | wood products machine tender |
| 9432 | wood pulp caustic liquor maker |
| 9614 | wood room labourer - pulp and paper |
| 9437 | wood sander - woodworking |

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| **9224** | wood sanders foreman/woman - furniture and fixtures manufacturing |
| **9437** | wood saw operator - woodworking |
| **5136** | wood sculptor |
| **7291** | wood shingle roofer |
| **7205** | wood shingle roofers foreman/woman |
| **7205** | wood shingle roofing contractor |
| **7291** | wood shingler |
| **7271** | wood shipwright |
| **7441** | wood siding applicator |
| **9434** | wood treater |
| **9434** | wood treater - wood preserving |
| **9437** | wood turner - woodworking |
| **9437** | wood turning lathe operator - woodworking |
| **7331** | wood-burning appliance installer |
| **7331** | wood-burning system installer |
| **5244** | woodcarver |
| **9437** | wood-carving machine operator |
| **9533** | wooden barrel builder |
| **9533** | wooden barrel header |
| **9437** | wooden barrel header - woodworking |
| **9533** | wooden barrel heading matcher and assembler |
| **9533** | wooden barrel maker |
| **9227** | wooden barrel maker foreman/woman |
| **9437** | wooden barrel-header fitter - woodworking |
| **9533** | wooden basket maker |
| **9531** | wooden boat assembly inspector |
| **9531** | wooden boat inspector |
| **7271** | wooden boatbuilder |
| **9533** | wooden box assembler |
| **9619** | wooden box bander |
| **9533** | wooden box bench hand |
| **9533** | wooden box builder |
| **9227** | wooden box maker foreman/woman |
| **9533** | wooden case builder |
| **9532** | wooden casket assembler |
| **9533** | wooden casket inspector |
| **9619** | wooden coat hanger shaper feeder |
| **9533** | wooden crate builder |
| **9533** | wooden door assembler |
| **9533** | wooden door inspector |
| **9533** | wooden door maker |
| **9533** | wooden door repairer - wood products manufacturing |
| **7441** | wooden fence erector |
| **9532** | wooden furniture assembly repairer |
| **9533** | wooden golf club facer |
| **9533** | wooden hoop maker |
| **9531** | wooden hull caulker - boat assembly |
| **9533** | wooden keg builder |
| **9533** | wooden keg maker |
| **9533** | wooden ladder assembler |
| **9533** | wooden ladder builder |
| **9533** | wooden pallet assembler |
| **9533** | wooden pallet maker |
| **7441** | wooden panel installer |
| **9533** | wooden panel matcher |
| **9533** | wooden reel assembler |
| **9533** | wooden sash and door inspector |
| **9533** | wooden shuttle inspector |
| **9437** | wooden stave turner - woodworking |
| **9532** | wooden table assembler |
| **9533** | wooden tank bottom sawyer and assembler |
| **9533** | wooden truss maker |
| **9227** | wooden truss making foreman/woman - manufacturing |
| **7441** | wooden window sash installer |
| **9533** | woodenware assembler |
| **9227** | woodenware assembler foreman/woman |
| **0811** | woodlands manager |
| **9224** | wood-machining quality-control inspectors foreman/woman - furniture and fixtures manufacturing |
| **9434** | wood-oiling machine operator - wood processing |
| **9614** | wood-preserving plant labourer |
| **8211** | woods foreman/woman |
| **0811** | woods superintendent |
| **9437** | woodsawyer - woodworking |
| **9215** | wood-treating machine foreman/woman |
| **9215** | wood-treating plant foreman/woman |
| **9437** | wood-turning lathe operator - woodworking |
| **9224** | woodworking machine department foreman/woman - furniture and fixtures manufacturing |
| **9619** | woodworking machine feeder |
| **9437** | woodworking machine operator |
| **9224** | woodworking machine operator foreman/woman - furniture and fixtures manufacturing |
| **9224** | woodworking machine operators supervisor - furniture and fixtures manufacturing |
| **9437** | woodworking machine setter |
| **9437** | woodworking machine set-up operator |
| **9619** | woodworking shop helper |
| **9441** | wool batcher |
| **9441** | wool blender |
| **9447** | wool fleece grader |
| **9447** | wool grader |
| **9441** | wool mixer |
| **9441** | wool opener and duster |
| **9619** | wool puller - hide and pelt processing |
| **9441** | wool scourer |
| **8252** | wool shearing contractor |
| **9441** | wool sorter |
| **9217** | wool sorter and grader foreman/woman - textile processing |
| **9217** | wool sorting and grading foreman/woman |
| **9441** | wool washer |
| **1211** | word processing service co-ordinator |
| **1211** | word processing unit supervisor |
| **1411** | word processor clerk |
| **2141** | work measurement engineer |

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| **1122** | work reorganization consultant |
| **4161** | work site analyst |
| **4161** | work site auditor |
| **1122** | work study analyst |
| **1122** | work study analysts supervisor |
| **7533** | workboat operator |
| **1312** | workers' compensation adjuster - insurance |
| **4164** | workers' compensation officer |
| **4164** | workers' compensation policy analyst |
| **4156** | workforce adjustment officer |
| **4156** | workforce development officer |
| **7384** | working model maker - aircraft |
| **6321** | working sous-chef |
| **8232** | workover rig operator - oil field services |
| **4021** | workplace trainer |
| **8611** | worm harvester |
| **8611** | worm packer |
| **8611** | worm picker |
| **8611** | worm picker-packer |
| **9461** | wort cooler - food and beverage processing |
| **9461** | wort maker - food and beverage processing |
| **9217** | woven fabric inspection foreman/woman - textile processing |
| **9433** | wrapline operator - papermaking |
| **6741** | wrapper - laundry and dry cleaning |
| **9619** | wrapper - manufacturing |
| **9423** | wrapper operator - rubber products |
| **9527** | wrapper-stacker operator - electrical equipment manufacturing |
| **9612** | wrapping machine operator - wire products manufacturing |
| **9527** | wrapping machine tender - electrical equipment manufacturing |
| **5244** | wreath maker |
| **7371** | wrecking crane operator |
| **7302** | wrecking crew foreman/woman |
| **5251** | wrestler |
| **9441** | wringer operator - textile manufacturing |
| **9441** | wringer tender - textile manufacturing |
| **9441** | wring-out machine operator - textile manufacturing |
| **9619** | wrinkle remover - shoe manufacturing |
| **4421** | writ server - bailiff |
| **5121** | writer |
| **5132** | writer-composer-performer |
| **5122** | writer-editor |

## X

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|---|---|
| **3215** | X-ray (radiology) technician |
| **6221** | X-ray equipment salesperson |
| **9474** | X-ray film developer |
| **3215** | X-ray machine operator - medical |
| **2111** | X-ray physicist |
| **9474** | X-ray plate developer |
| **3215** | X-ray technician |

## Y

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|---|---|
| **1315** | yacht broker |
| **8221** | yard boss - mining and quarrying |
| **1525** | yard clerk |
| **7531** | yard coupler - railway |
| **7361** | yard engineer - railway |
| **9215** | yard foreman/woman - pulp and paper |
| **7304** | yard foreman/woman - railway |
| **6421** | yard goods salesperson - retail |
| **9614** | yard labourer - pulp and paper |
| **7622** | yard labourer - railway transport |
| **7361** | yard locomotive engineer - railway |
| **8221** | yard supervisor - mining and quarrying |
| **7531** | yard switchman/woman - railway transport |
| **7531** | yard trainman/woman |
| **7531** | yard worker - railway |
| **9413** | yardage controller - glass products manufacturing |
| **8241** | yarder operator - logging |
| **8241** | yarding engineer - logging |
| **7531** | yardman/woman - railway |
| **7304** | yardmaster - railway |
| **9447** | yarn and spun yarn inspector |
| **9441** | yarn conditioner |
| **9441** | yarn doubler - textile manufacturing |
| **9441** | yarn dryer |
| **9441** | yarn dyer |
| **9447** | yarn examiner |
| **9441** | yarn finisher |
| **9616** | yarn handler |
| **9447** | yarn inspector |
| **9441** | yarn mercerizer |
| **9217** | yarn preparation supervisor - textiles |
| **9616** | yarn salvager |
| **9441** | yarn soaker |
| **9441** | yarn spinner |
| **9441** | yarn spooler |
| **9447** | yarn tester |
| **9441** | yarn winder |
| **9441** | yarn winder tender |
| **9441** | yarn winder, automatic |
| **9441** | yarn-drying machine tender |
| **9441** | yarn-plaiting equipment tender |
| **9441** | yarn-texturing machine tender - textile fibre |
| **9441** | yarn-texturing machine tender - textile manufacturing |
| **9461** | yeast cutter |
| **9461** | yeast dryer |
| **9461** | yeast emulsifier tender - food and beverage processing |
| **9461** | yeast maker |
| **9617** | yeast processing labourer |
| **9461** | yeast room operator |
| **9617** | yeast sampler - food and beverage processing |

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| **9461** | yeast separator - food and beverage processing |
| **0513** | YMCA (Young Men's Christian Association) general director |
| **0513** | YMCA (Young Men's Christian Association) general secretary |
| **0513** | YMCA (Young Men's Christian Association) programs director |
| **5254** | yoga instructor |
| **9461** | yogurt maker |
| **0014** | young men's christian association (YMCA) executive director |
| **0423** | young offender services director |
| **3012** | youth centre nurse |
| **1416** | youth court clerk |
| **4111** | youth court judge |
| **4212** | youth development co-ordinator |
| **4212** | youth hostel co-ordinator |
| **0632** | youth hostel manager |
| **4167** | youth recreational and leisure activities consultant |
| **4167** | youth recreational and leisure activities counsellor |
| **4167** | youth recreational and leisure activities program co-ordinator |
| **4212** | youth services worker |
| **4212** | youth worker |
| **4155** | youth worker - corrections |
| **4212** | youth worker - social services |

## Z

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|---|---|
| **6722** | zamboni driver |
| **9411** | zinc billet caster |
| **9611** | zinc cathode puller |
| **9411** | zinc cell operator |
| **9411** | zinc chloride separator tender |
| **9611** | zinc drosser |
| **9611** | zinc dust maker |
| **9611** | zinc electrolysis lead burner helper |
| **9536** | zinc galvanizer |
| **9411** | zinc pressure leach operator |
| **7201** | zinc roofers foreman/woman |
| **9411** | zinc vapour condenser |
| **6532** | zipline guide |
| **9537** | zipper assembler |
| **9537** | zipper chain assembler |
| **9537** | zipper chain machine tender |
| **9537** | zipper inspector |
| **9418** | zipper links machine tender |
| **9418** | zipper links maker |
| **9537** | zipper machine operator |
| **9537** | zipper machine tender (except plastic products) |
| **9537** | zipper manufacturing inspector |
| **9619** | zipper repairer |
| **9537** | zipper-cutting machine operator |
| **9535** | zipper-forming machine tender - plastic products manufacturing |
| **9446** | zipper-sewing machine operator |
| **0601** | zone manager - sales |
| **4423** | zoning enforcement officer |
| **4423** | zoning inspector |
| **2153** | zoning officer - land use |
| **6563** | zoo animal attendant |
| **6563** | zoo attendant |
| **2221** | zoo foreman/woman |
| **5212** | zoo interpreter |
| **2221** | zoo supervisor |
| **3114** | zoo veterinarian |
| **0212** | zoological garden director |
| **0212** | zoological park director |
| **2221** | zoological technician |
| **2221** | zoological technologist |
| **2121** | zoologist |
| **4011** | zoology professor - university |
| **4153** | zootherapist |